



Traffic Volumes Monthly Report September 2011

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Quality Assurance Statement

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Revision Schedule

Rev. No	Date	Description	Prepared by	Reviewed by	Approved by
1	7/10/2011	First draft	Gerald Wen	Philip Blagdon	
2	10/10/2011	Final version	Gerald Wen	Philip Blagdon	

Overview

Summary

The purpose of this document is to report on the monthly changes in traffic volumes on the state highway. This report also covers annual state highway traffic trends for the period of 1989 to 2010.

Up to 2005, the overall trend in state highway traffic growth for both all and heavy vehicles have continued to increase. But both indexes have seen fluctuations on their increasing trend since 2006.

In September 2011, compared with September 2010, the monthly average daily traffic (MADT) for all vehicles increased by 2.7%, while the MADT for heavy vehicles increased by 3.3%.

In this report

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Technical Notes

What is MADT and AADT

Monthly Average Daily Traffic (MADT) is the average of daily traffic volume measured in a given month. MADT is the statistical term used throughout this report.

A more commonly reported statistical term is Annual Average Daily Traffic (AADT), which measures the average of daily traffic volume over a given calendar year.

Purpose

Monthly Average Daily Traffic (MADT) reporting enables us to provide a month-by-month indication of traffic trends, and to allow the effects of specific events (e.g. storms, fuel price shifts, economy, etc.) to be monitored.

Sample coverage

There are 104 telemetry¹ sites in use on the state highway network to provide this traffic data.

The table below shows the number of sites in each NZ Transport Agency region. These numbers represent the sample sizes that are used to report the regional MADT results.

NZ Transport Agency Region	Number of Telemetry Sites
Northland and Auckland	19
Waikato and Bay of Plenty	23
Taranaki, Manawatu-Wanganui, Hawkes Bay and Gisborne	16
Wellington, Nelson, Marlborough and Tasman	16
Canterbury and West Coast	14
Otago and Southland	16

Sources of variation in MADT

The number of weekends in a specific month can affect the MADT comparison between years. Also, public holidays that can occur in different months can also affect the ability for direct comparison between years. This report does not attempt to compensate for these variations.

¹ Telemetry sites are continuously monitored 24/7.

Key Results

The State Highway Traffic Volume Indexed growth measures the change in traffic volume compared to 1989.

Overall

Over the last 10 years, the average annual growth for all vehicles using the State Highway network is approximately 1.5%, and approximately 3% for heavy vehicles.

The all vehicle index shows no significant change for the past five years. The heavy vehicle index has fluctuated for the past five years, but shows an average monthly growth of approximately 3% over the past 12 months when compared to the same month in the previous year.

After experiencing the first significant reduction of heavy vehicle volumes in 2009, for the last two decades, 2010 has seen the index for heavy vehicles using the State Highway network increase.

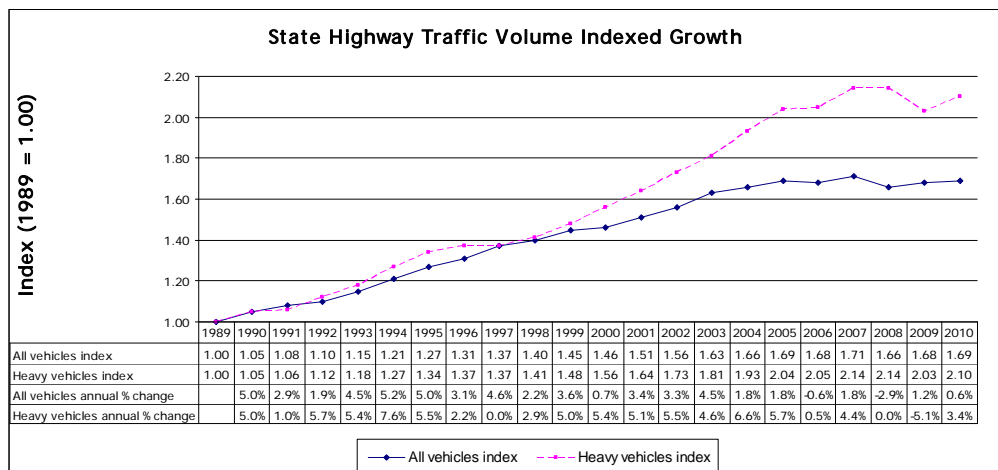
2010 All Vehicles

In 2010, there has been an increase of approximately 0.6% in the total number of vehicles using the State Highway network, compared to 2009.

2010 Heavy Vehicles

There has been an increase of approximately 3.4% in the total number of heavy vehicles using the State Highway network, compared to 2009.

The percentage of very long heavy vehicles (>17m) increased by approximately 6%, compared to 2009.



**Results:
Monthly
traffic at key
sites**

Five key sites have been selected to represent five main centres in NZ.

The MADT values for September 2011, September 2010 and percentage of difference compared are reported in the table below.

Note the MADT values include all vehicles.

Site	City	MADT (All Vehicles) September - 10	MADT (All Vehicles) September - 11	% Change
Auckland harbour bridge (SH1)	Auckland	156357	153902	-2%
Greenwood (SH1)	Hamilton	21577	21969	2%
Ngauranga Interchange (SH 1 and SH2 combined, NB only)	Wellington	43080	43879	2%
Waimakariri Bridge	Christchurch	37588	39453	5%
Burnside	Dunedin	24105	25741	7%

In September 2011, the MADT values for the site representing Hamilton, Wellington, Christchurch and Dunedin indicated an increase; only the site representing Auckland showed a decrease, compared to the same period in the previous year.

Please note:

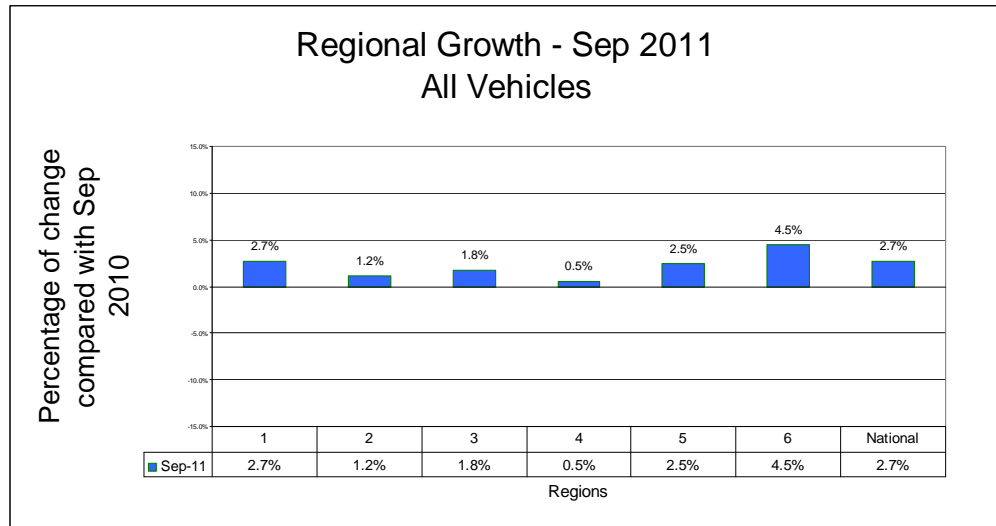
The required accuracy for the delivery of data at a single site is +/- 5%, so the above figures may be within this tolerance.

Results: All Vehicles

Regions

Comparisons across the NZ Transport Agency regions have also been carried out.

The graph below shows the percentage of difference compared with the same month last year. The MADT values here represent all vehicle types. It can be observed that all regions indicated an increase of between 0.5% and 4.5%. Nationally, the MADT in September 2011 for all vehicles increased by 2.7%, compared with September 2010.



NZTA Region Number	NZTA Region
1	Northland and Auckland
2	Waikato and Bay of Plenty
3	Taranaki, Manawatu-Wanganui, Hawkes Bay and Gisborne
4	Wellington, Nelson, Marlborough and Tasman
5	Canterbury and West Coast
6	Otago and Southland

Regional MADT Growth (All vehicles) – Sum of weighted MADT (All vehicles) percentage change compared with the same month previous year from each telemetry site in a region.

National MADT Growth (All vehicles) – Average of MADT (All vehicles) percentage change compared with the same month previous year from all telemetry sites (not weighted).

More graphs

The graphs (as above) dated back to January 2007 are attached to this report.

All sites

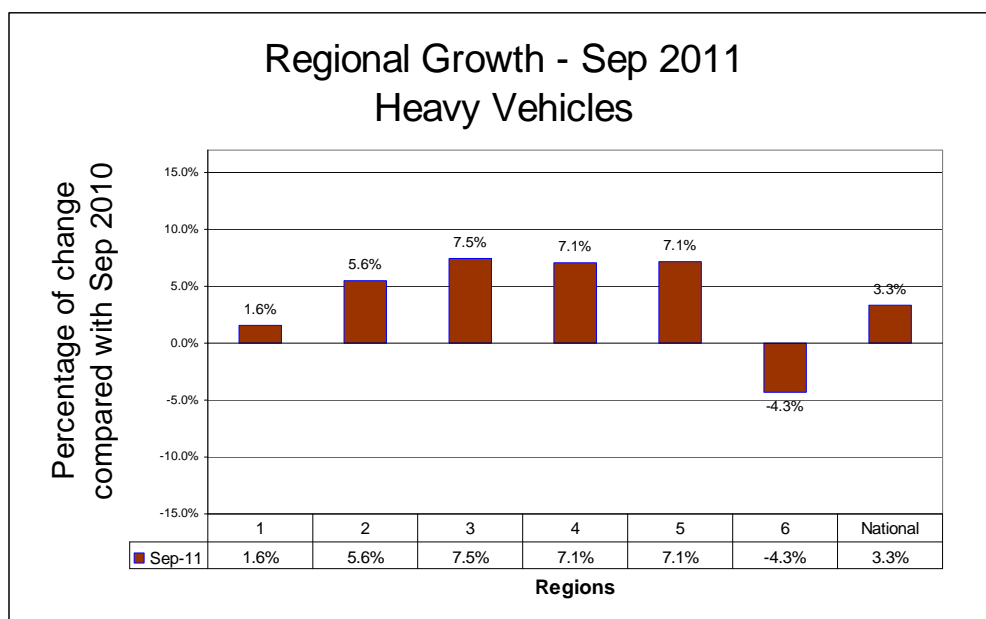
A table of MADT (all vehicles) values for all national telemetry sites is attached to this report.

Results: Heavy Vehicles

Regions

Comparisons across the NZ Transport Agency regions have also been carried out, focusing on heavy vehicles¹.

The graph below shows the percentage of difference compared with the same month last year. The MADT values here represent heavy vehicles only. It can be observed that almost all regions had an increase, except region 6, which showed a decrease. Nationally, the MADT in September 2011 for heavy vehicles increased by 3.3%, compared with September 2010.



NZTA Region Number	NZTA Region
1	Northland and Auckland
2	Waikato and Bay of Plenty
3	Taranaki, Manawatu-Wanganui, Hawkes Bay and Gisborne
4	Wellington, Nelson, Marlborough and Tasman
5	Canterbury and West Coast
6	Otago and Southland

Regional MADT Growth (Heavy vehicles) – Sum of weighted MADT (Heavy vehicles) percentage change compared with the same month previous year from each telemetry site in a region.

National MADT Growth (Heavy vehicles) – Average of MADT (Heavy vehicles) percentage change compared with the same month previous year from all telemetry sites (not weighted).

More graphs

The graphs (as above) dated back to January 2007 are attached to this report.

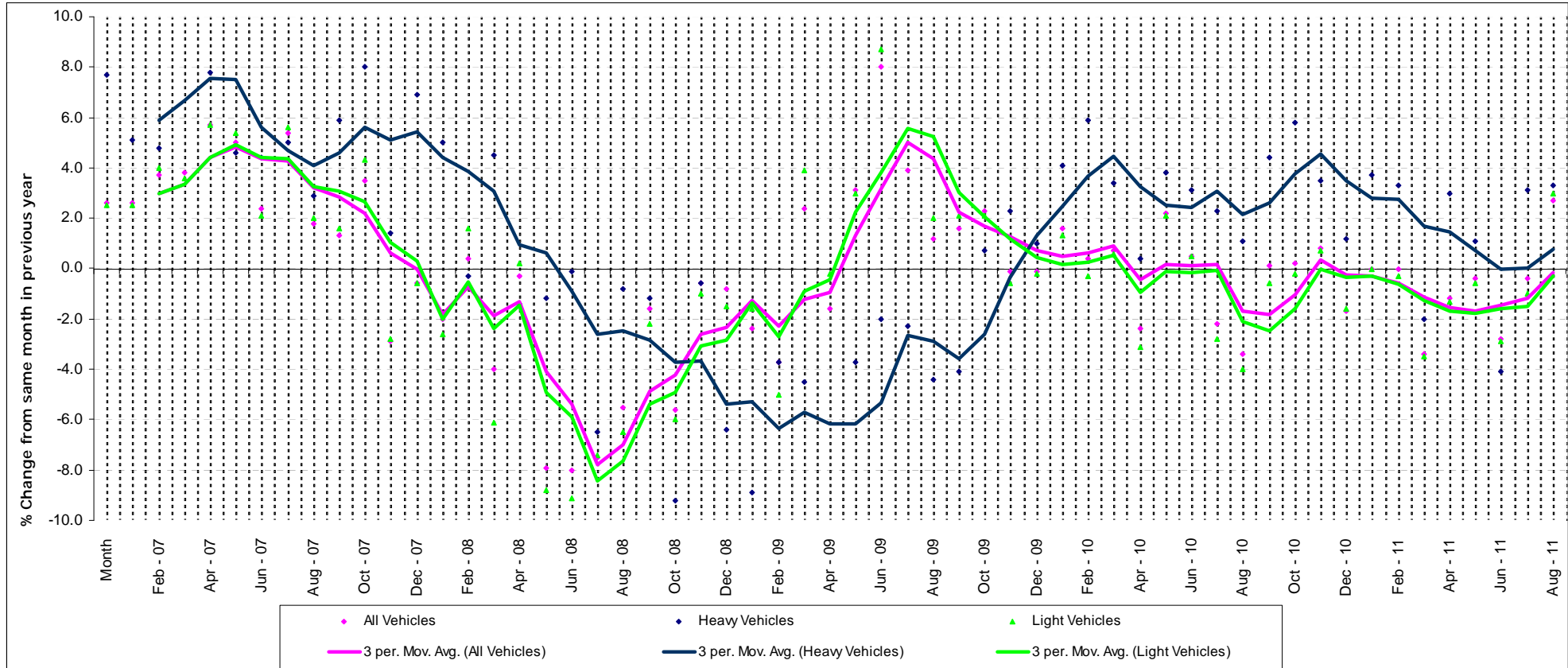
All sites

A table of MADT (heavy vehicles) values for all national telemetry sites for 2010 is attached to this report.

¹ Heavy vehicles are those with a gross vehicle mass exceeding 3.5 tonnes.

Summary of Percentage Change from Same Month in Previous Year

The graph and table below shows 5 years national percentage change from same month in previous year, summarising the figures published in previous monthly reports.



Year	2007			2008			2009			2010			2011		
Month	All Vehicles	Light Vehicles	Heavy Vehicles	All Vehicles	Light Vehicles	Heavy Vehicles	All Vehicles	Light Vehicles	Heavy Vehicles	All Vehicles	Light Vehicles	Heavy Vehicles	All Vehicles	Light Vehicles	Heavy Vehicles
January	2.6	2.5	7.7	-0.6	-0.6	6.9	-0.8	-1.5	-6.4	-0.1	-0.2	1.0	-1.7	-1.6	1.2
February	2.6	2.5	5.1	-2.0	-2.6	5.0	-2.4	-1.6	-8.9	1.6	1.3	4.1	0.0	0.0	3.7
March	3.7	4.0	4.8	0.4	1.6	-0.3	-3.7	-5.0	-3.7	0.4	-0.3	5.9	0.0	-0.3	3.3
April	3.8	3.6	10.1	-4.0	-6.1	4.5	2.4	3.9	-4.5	0.7	0.6	3.4	-3.4	-3.5	-2.0
May	5.7	5.7	7.8	-0.3	0.2	-1.4	-1.6	-0.2	-10.3	-2.4	-3.1	0.4	-1.2	-1.3	3
June	5.0	5.4	4.6	-7.9	-8.8	-1.2	3.1	3.0	-3.7	2.2	2.1	3.8	-0.4	-0.6	1.1
July	2.4	2.1	4.4	-8.0	-9.1	-0.1	8.0	8.7	-2.0	0.5	0.5	3.1	-2.8	-2.9	-4.1
August	5.4	5.6	5.0	-7.5	-7.4	-6.5	3.9	5.0	-2.3	-2.2	-2.8	2.3	-0.4	-1.0	3.1
September	1.8	2.0	2.9	-5.5	-6.5	-0.8	1.2	2.0	-4.4	-3.4	-4.0	1.1	2.7	3.0	3.3
October	1.3	1.6	5.9	-1.6	-2.2	-1.2	1.6	2.1	-4.1	0.1	-0.6	4.4			
November	3.5	4.3	8.0	-5.6	-6.0	-9.2	2.3	2.1	0.7	0.2	-0.2	5.8			
December	-2.9	-2.8	1.4	-0.6	-1.0	-0.6	-0.1	-0.6	2.3	0.8	0.7	3.5			

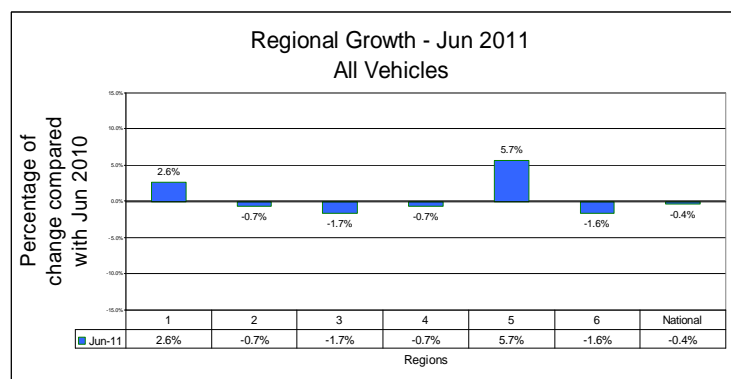
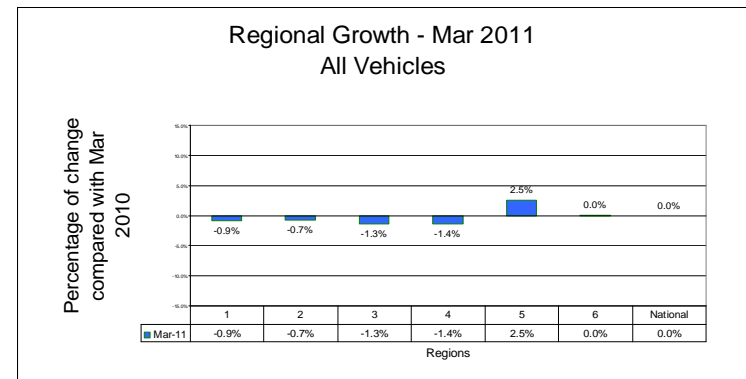
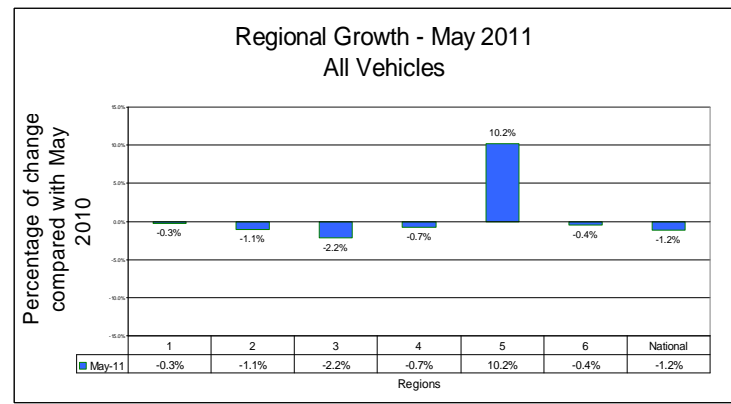
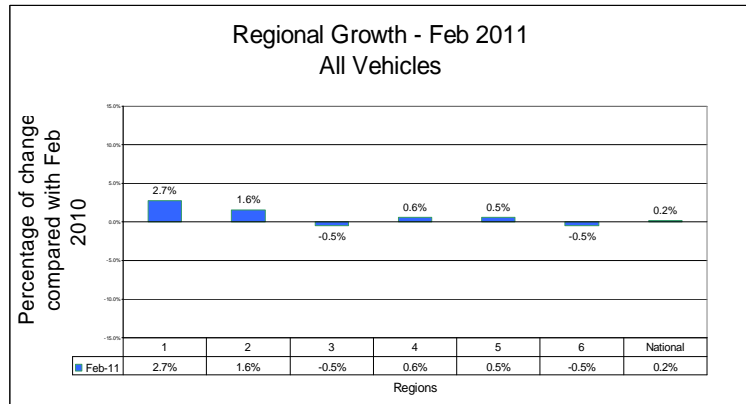
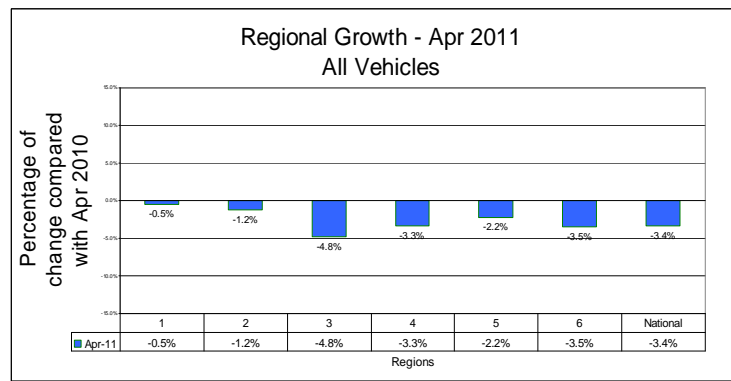
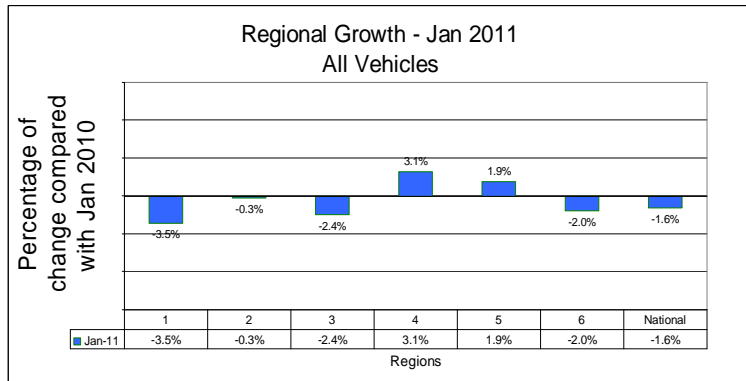
Appendices

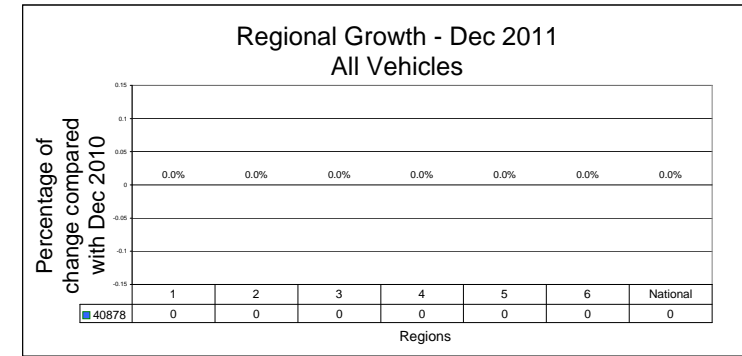
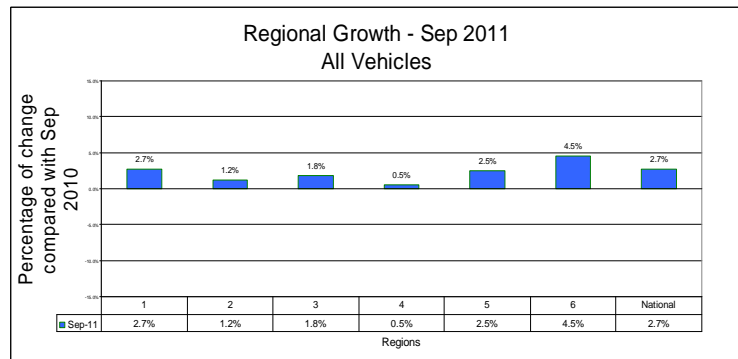
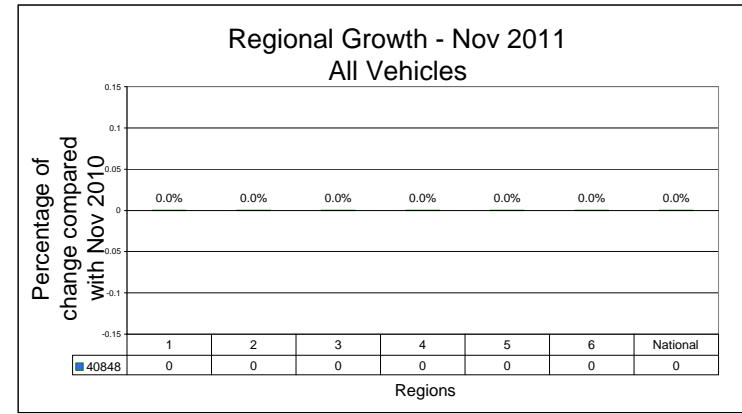
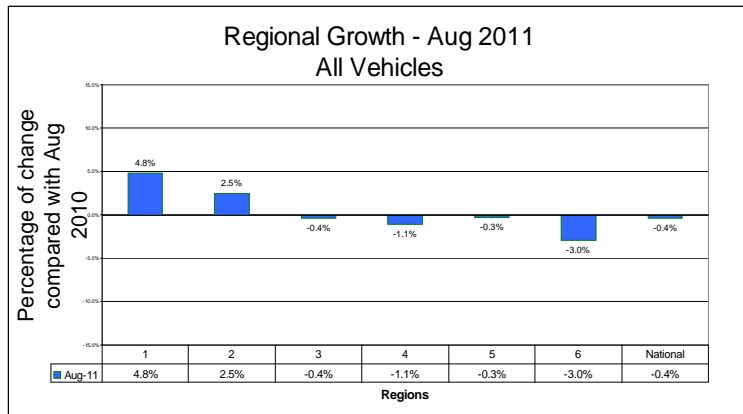
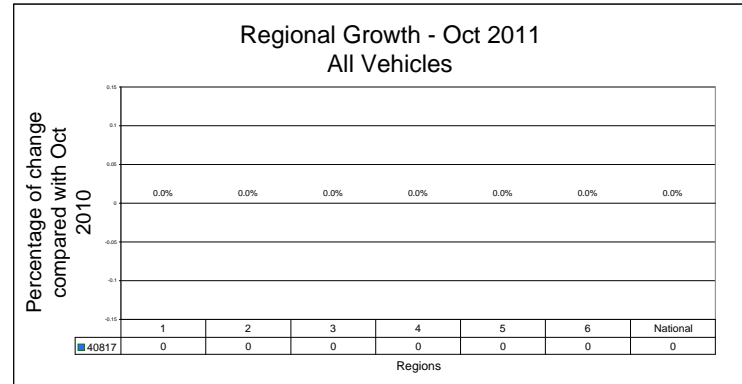
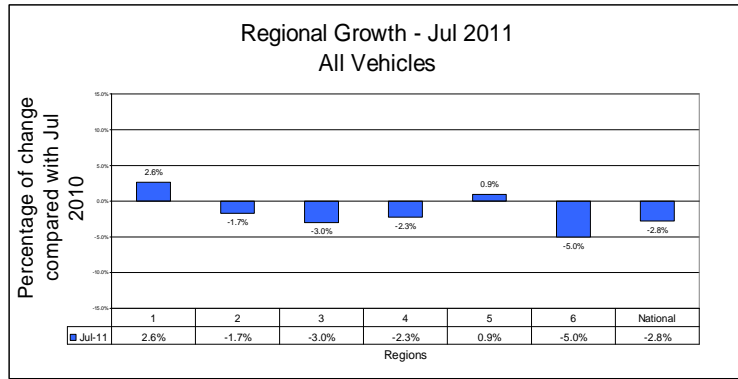
Current and Previous Years Growth Graphs: 2011, 2010, 2009 and 2008

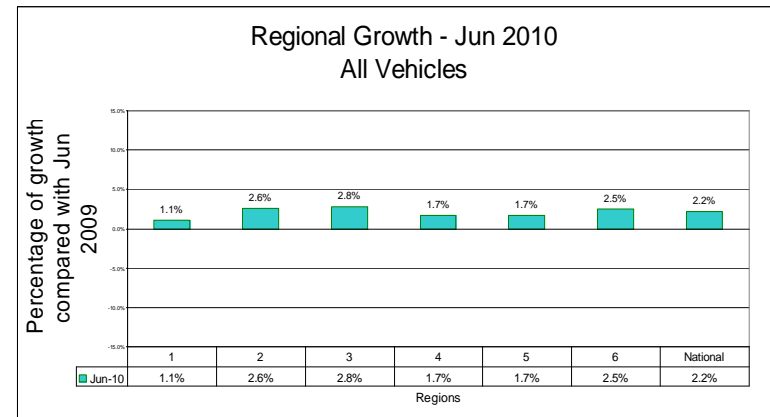
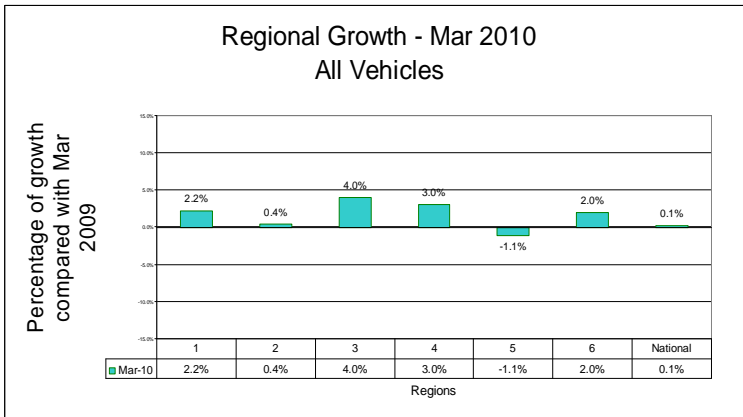
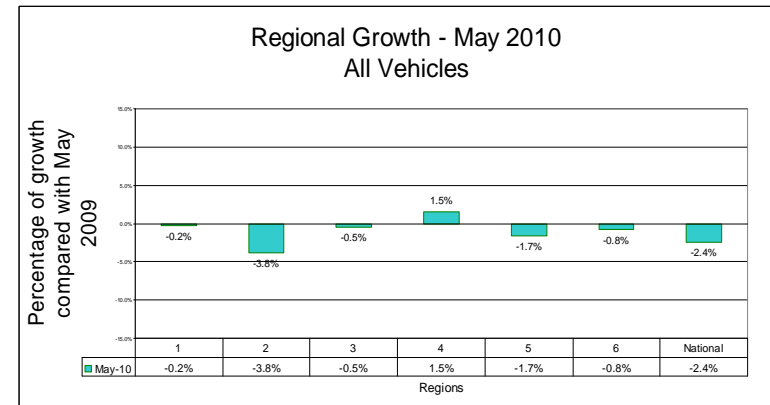
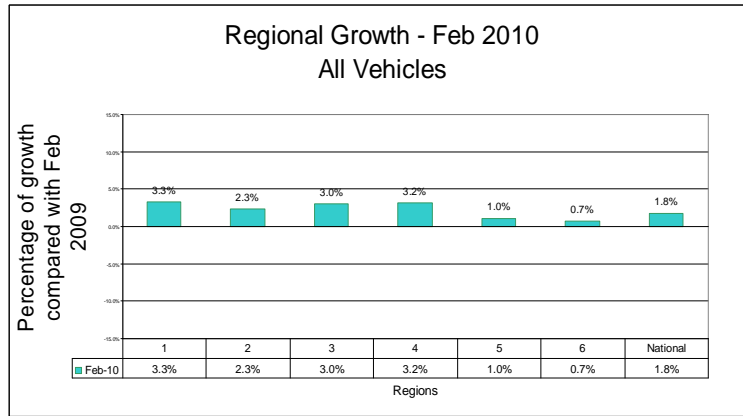
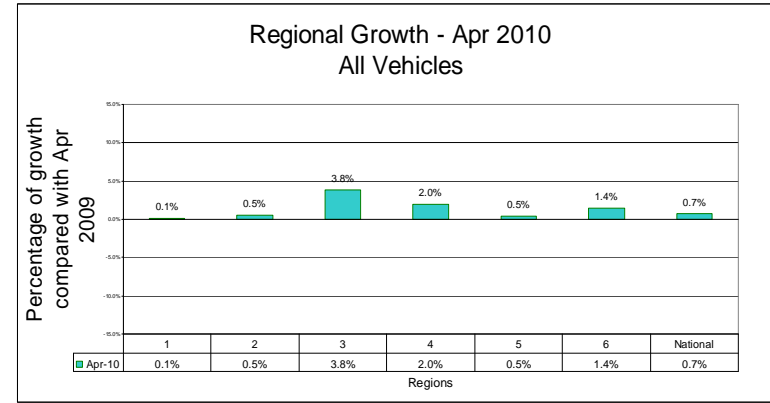
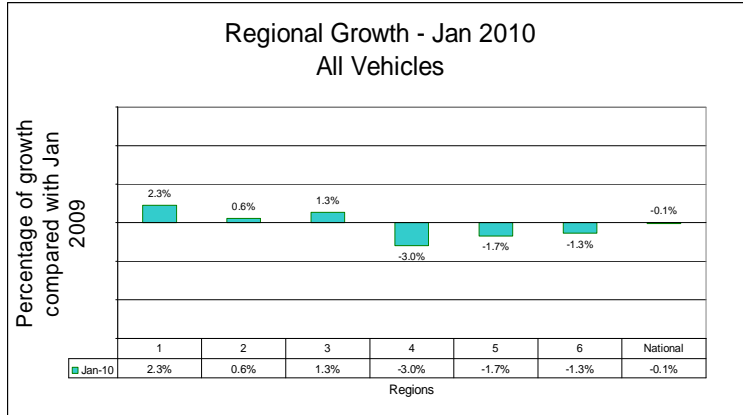
- All Vehicles
- Heavy Vehicles

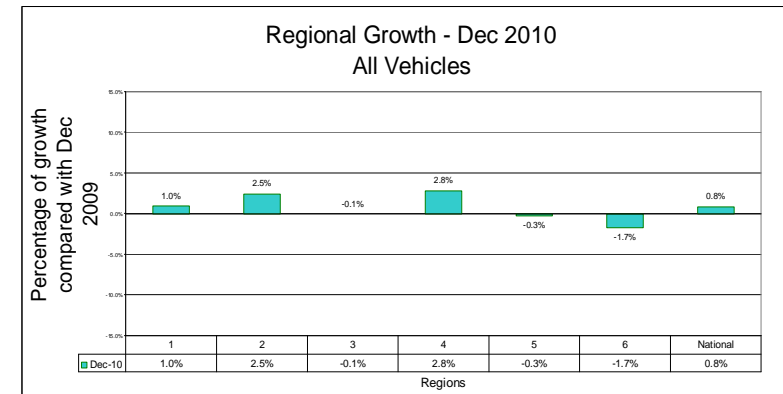
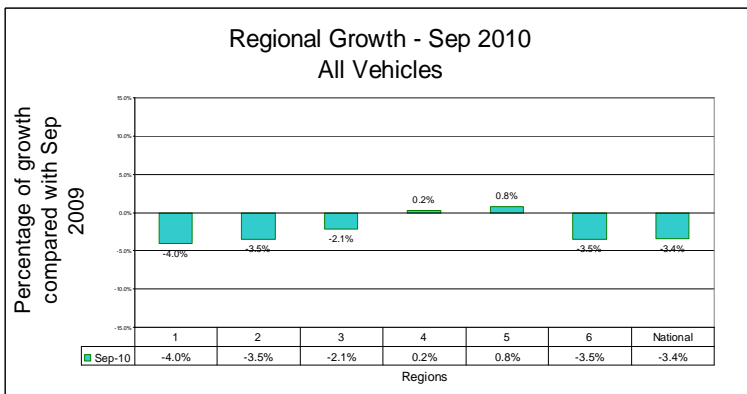
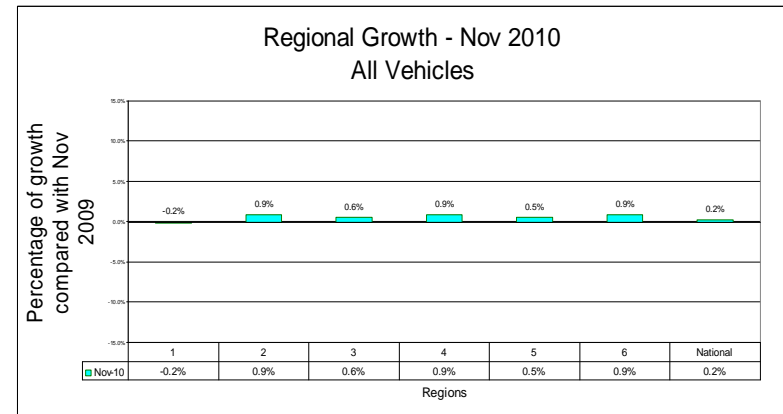
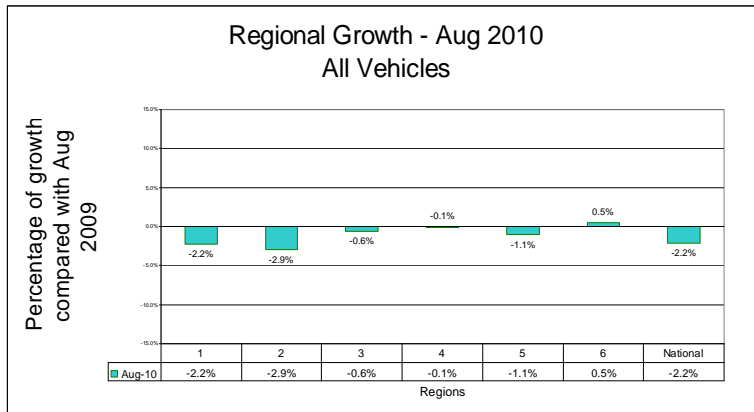
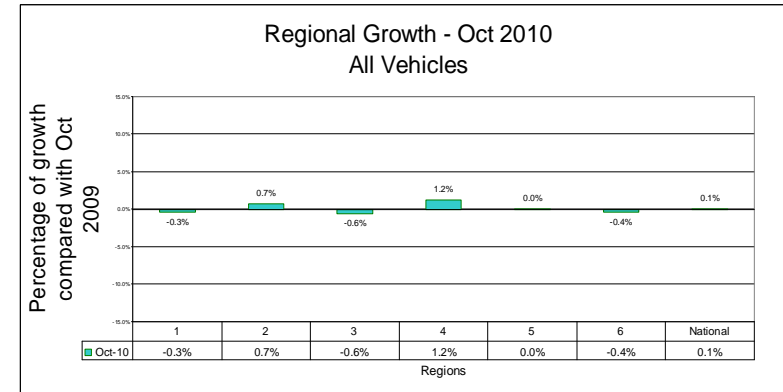
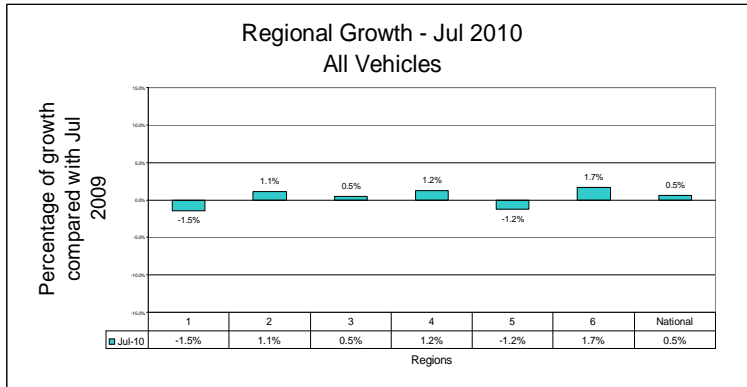
Telemetry Site MADT's for the past thirteen months

- All Vehicles
- Heavy Vehicles

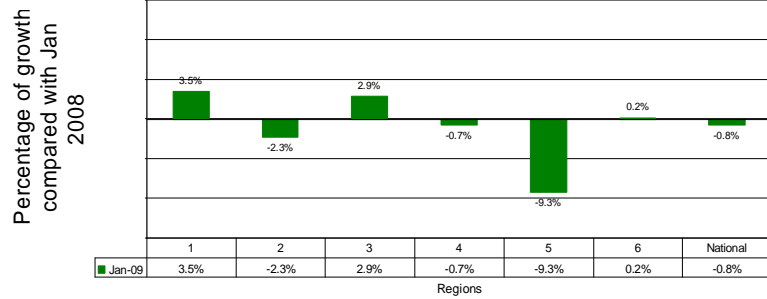




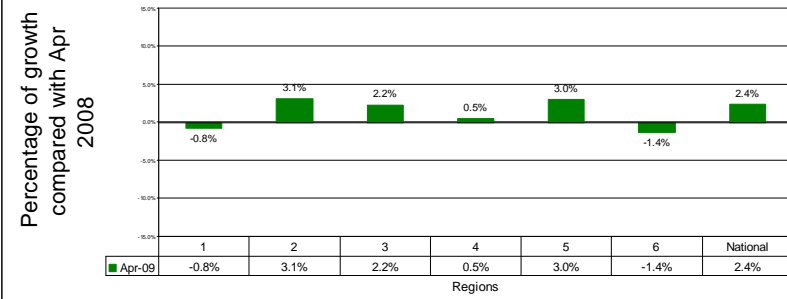




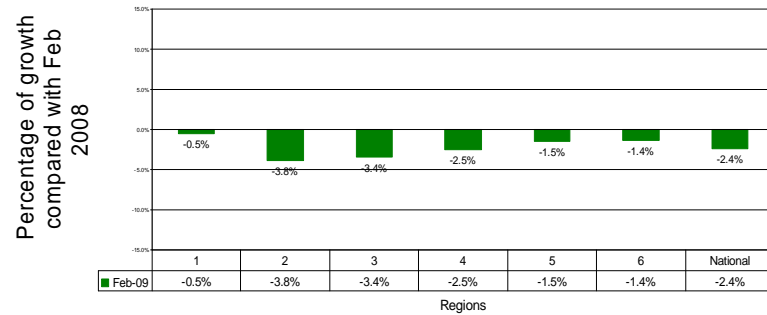
Regional Growth - Jan 2009
All Vehicles



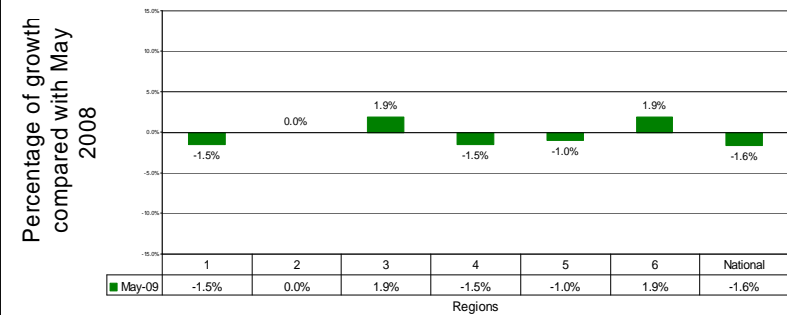
Regional Growth - Apr 2009
All Vehicles



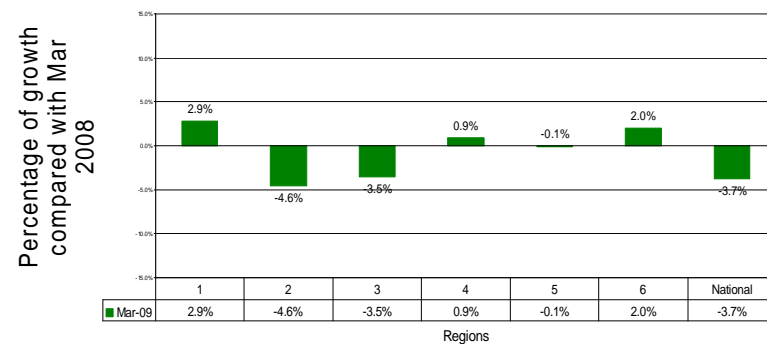
Regional Growth - Feb 2009
All Vehicles



Regional Growth - May 2009
All Vehicles



Regional Growth - Mar 2009
All Vehicles



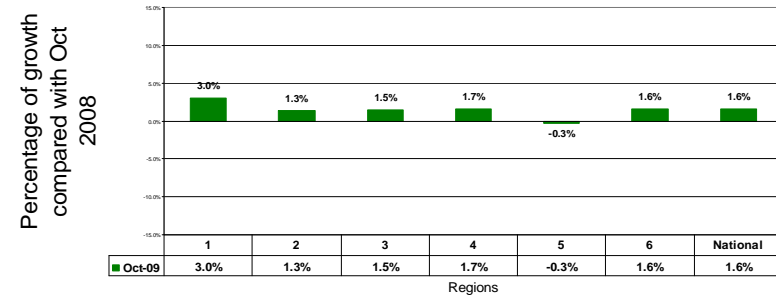
Regional Growth - Jun 2009
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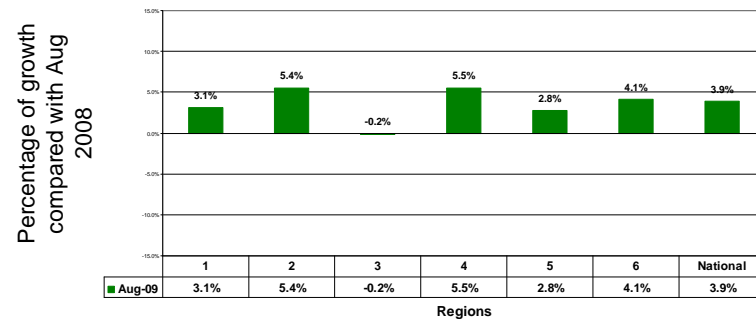
Regional Growth - Jul 2009
All Vehicles



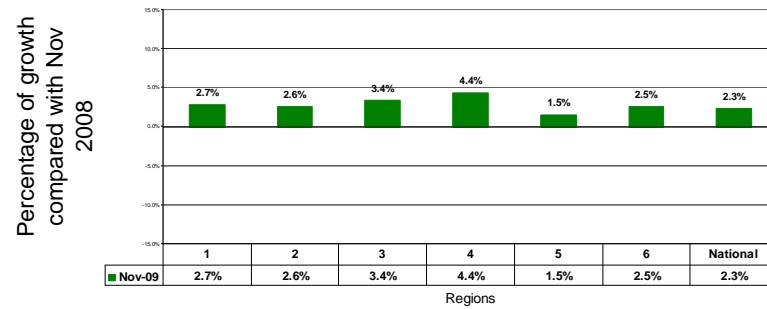
Regional Growth - Oct 2009
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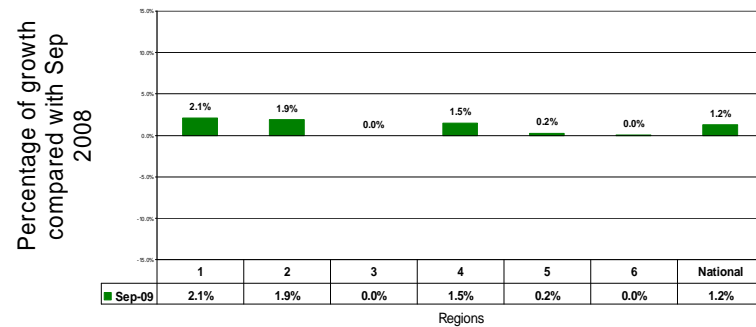
Regional Growth - Aug 2009
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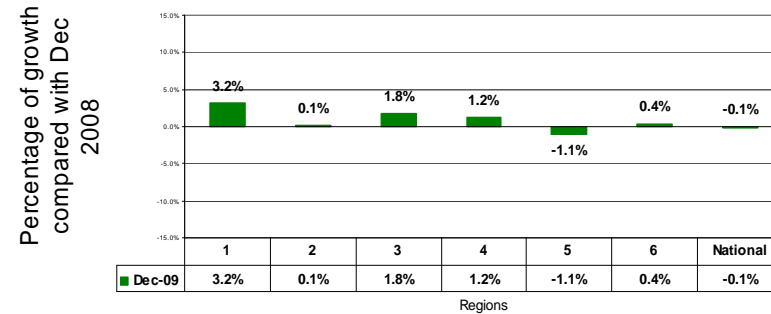
Regional Growth - Nov 2009
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Regional Growth - Sep 2009
All Vehicles



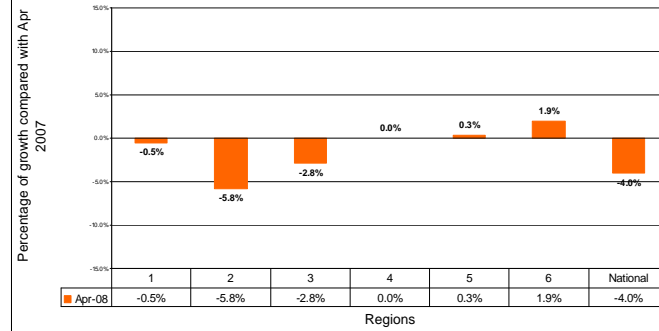
Regional Growth - Dec 2009
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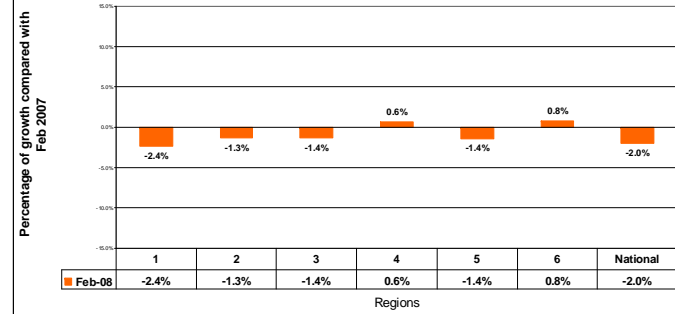
Regional Growth - Jan 2008
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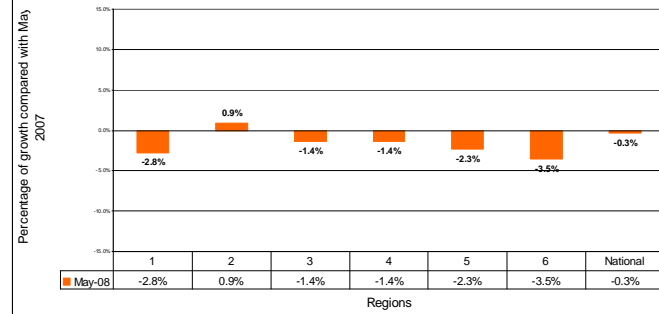
Regional Growth - Apr 2008
All Vehicles



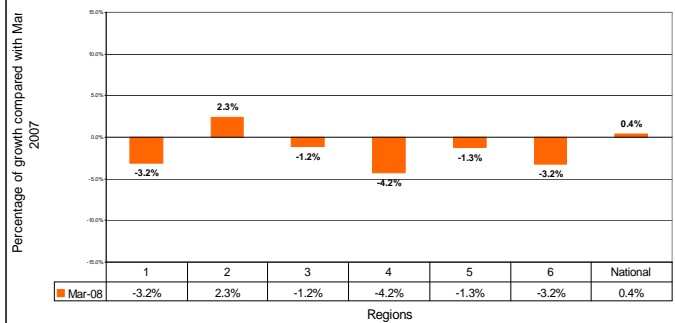
Regional Growth - Feb 2008
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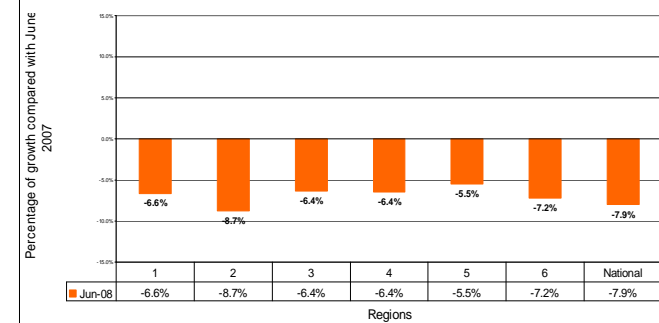
Regional Growth - May 2008
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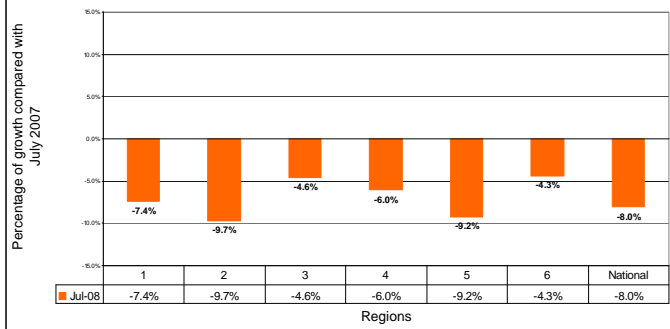
Regional Growth - Mar 2008
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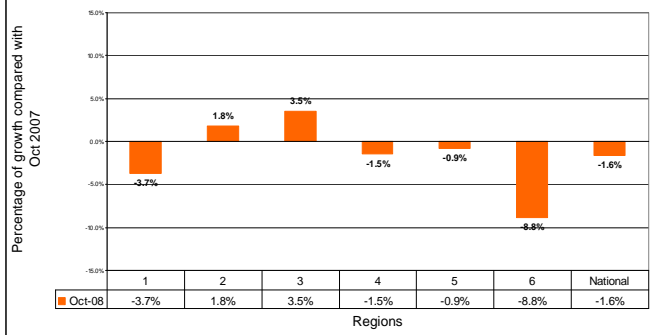
Regional Growth - June 2008
All Vehicles



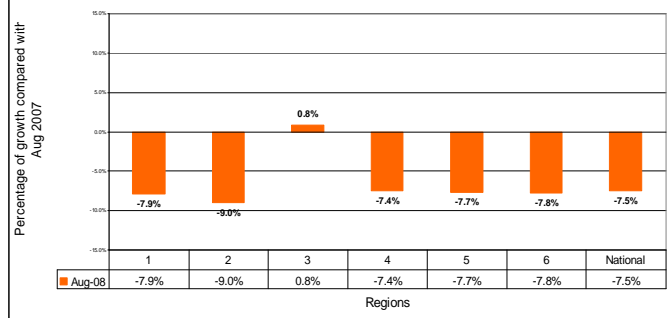
Regional Growth - July 2008
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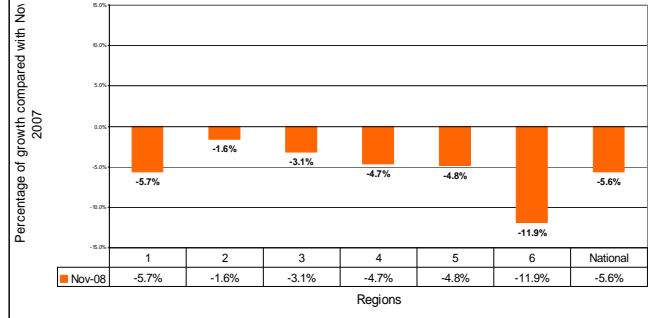
Regional Growth - Oct 2008
All Vehicles



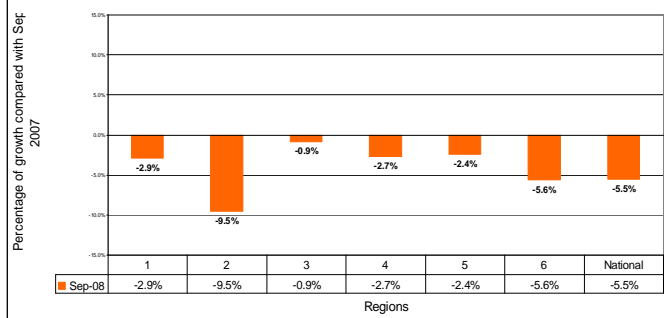
Regional Growth - Aug 2008
All Vehicles



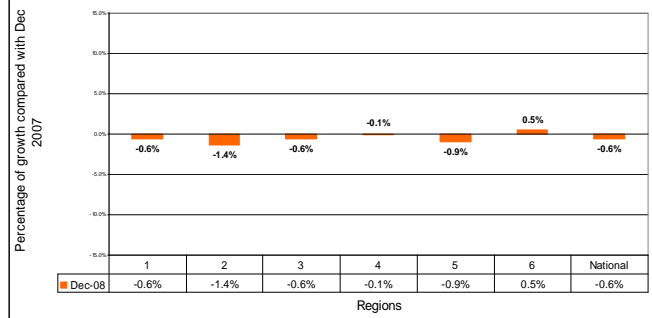
Regional Growth - Nov 2008
All Vehicles

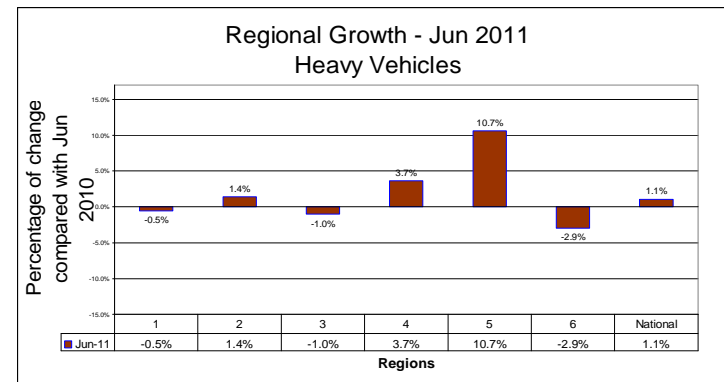
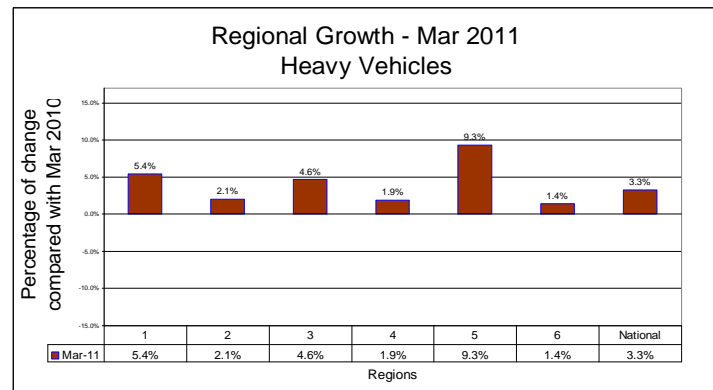
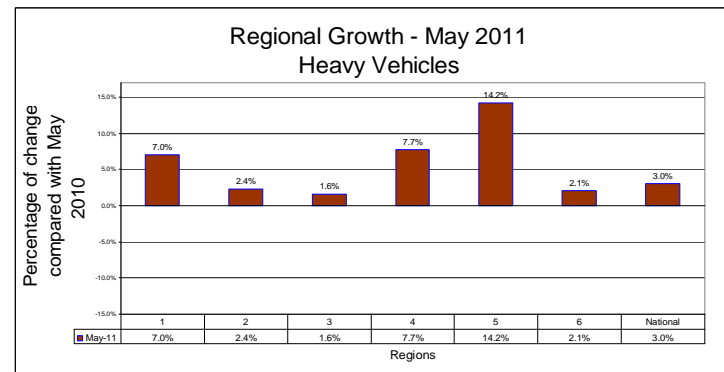
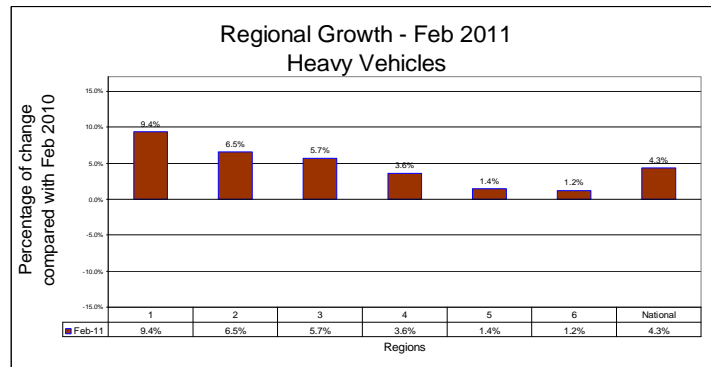
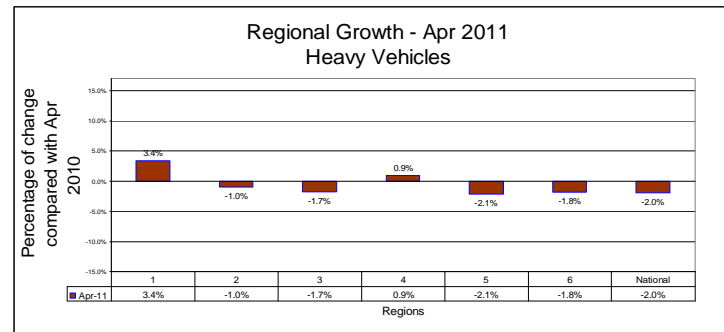
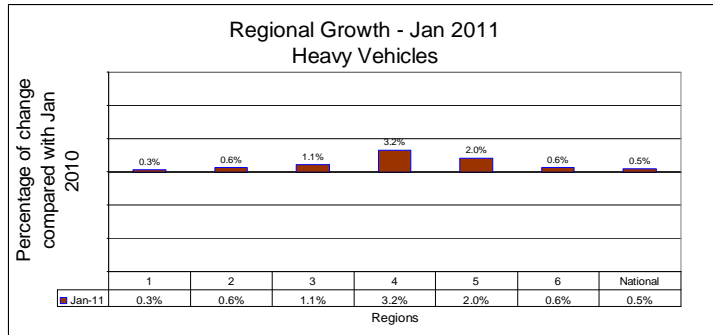


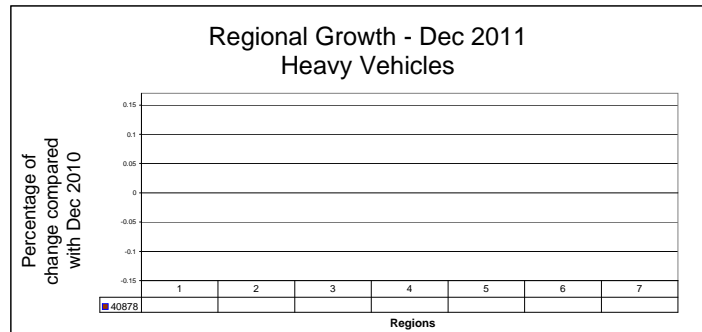
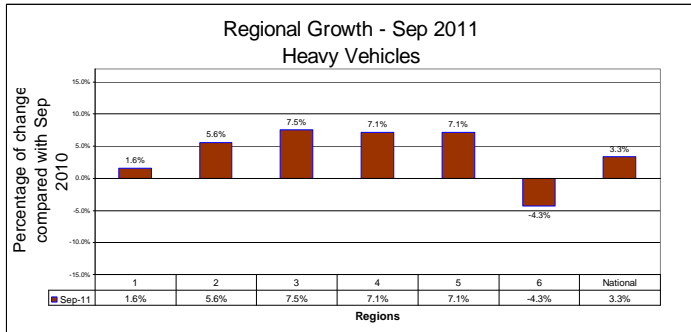
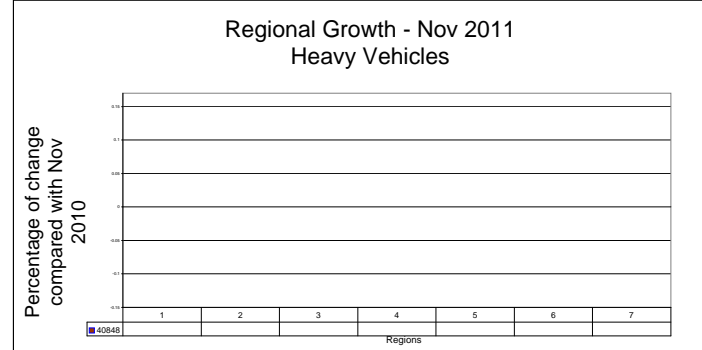
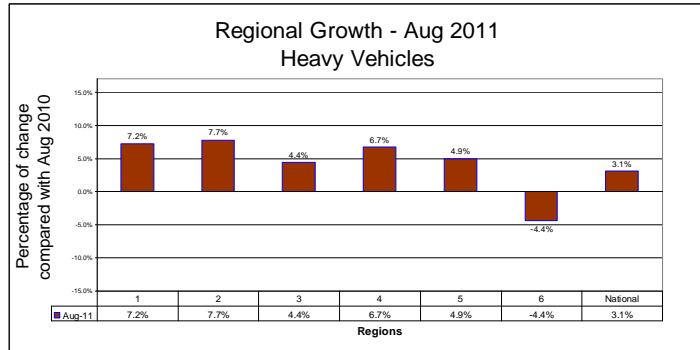
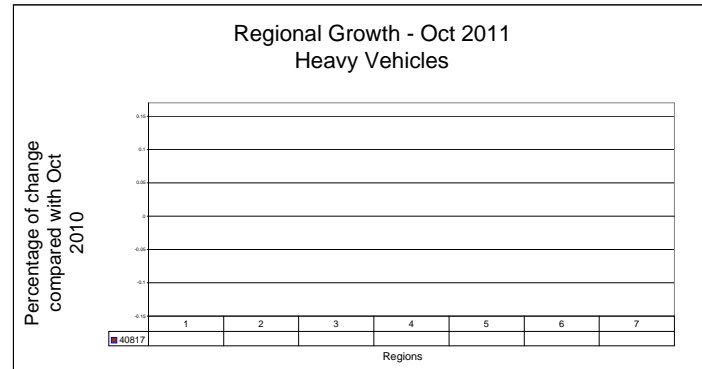
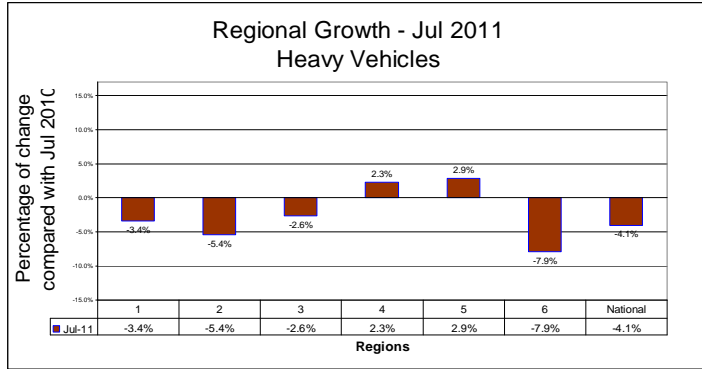
Regional Growth - Sep 2008
All Vehicles



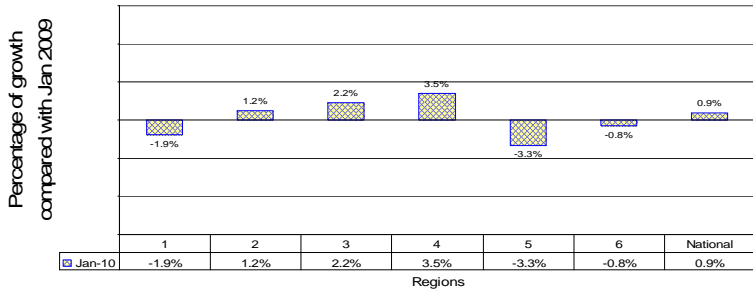
Regional Growth - Dec 2008
All Vehicles



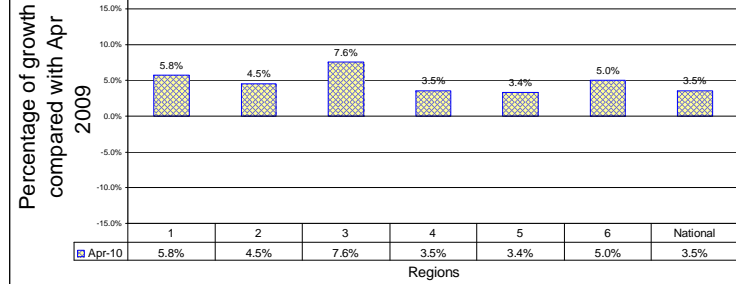




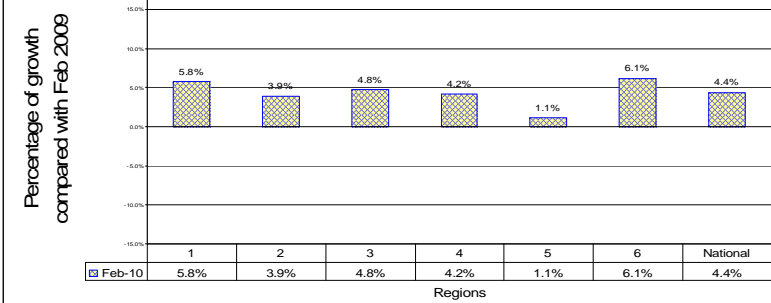
Regional Growth - Jan 2010
Heavy Vehicles



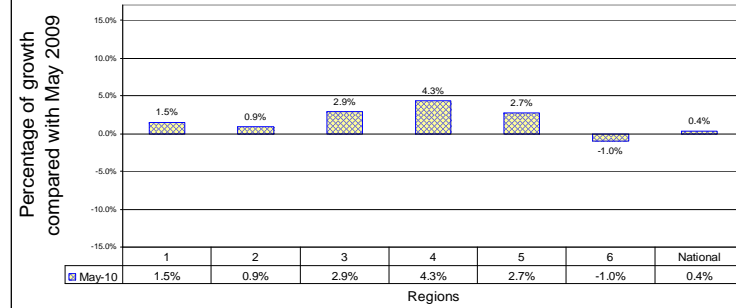
Regional Growth - Apr 2010
Heavy Vehicles



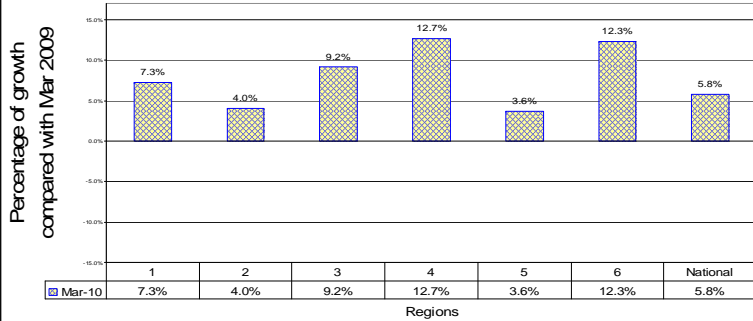
Regional Growth - Feb 2010
Heavy Vehicles



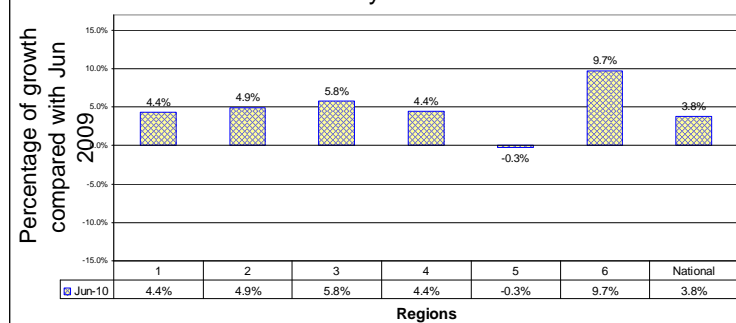
Regional Growth - May 2010
Heavy Vehicles

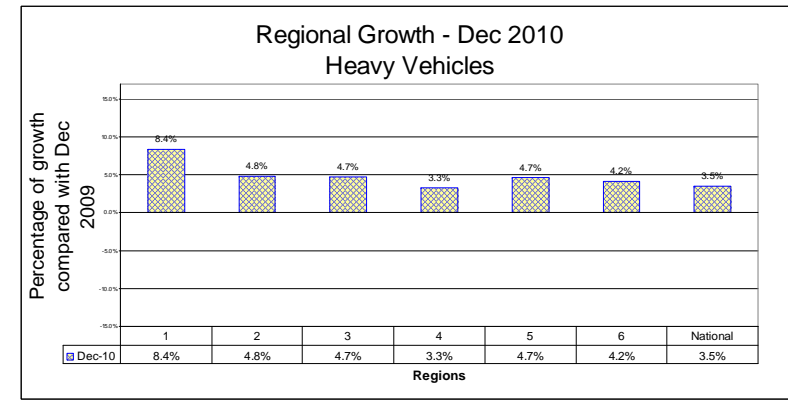
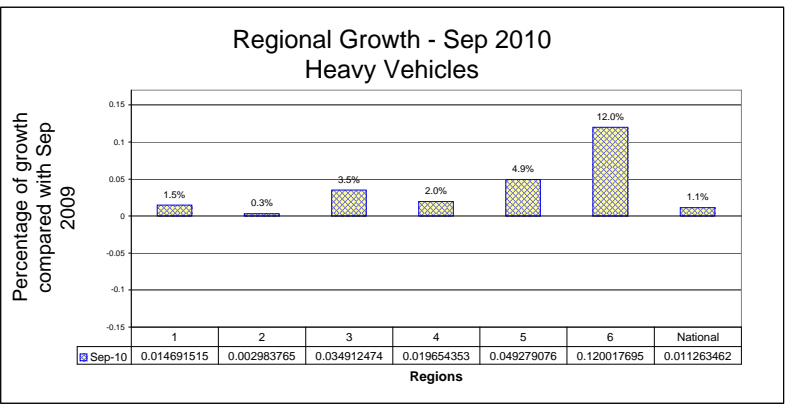
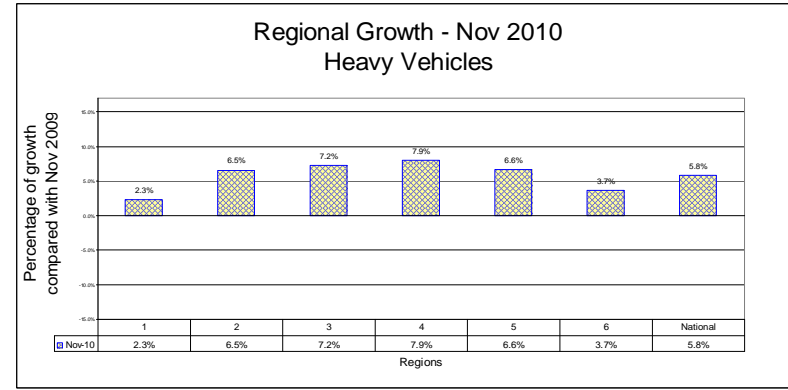
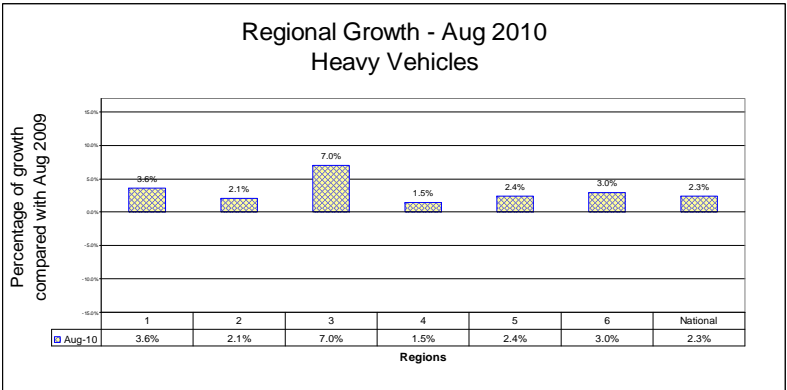
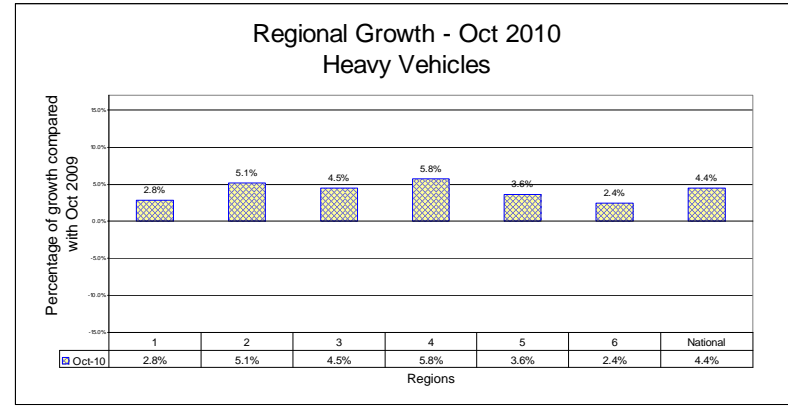
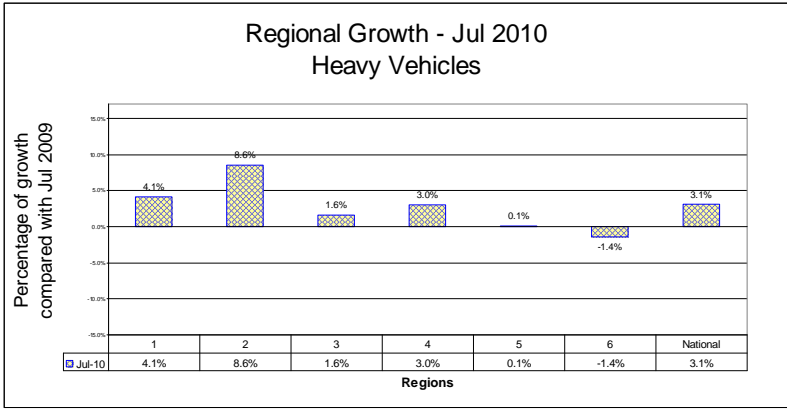


Regional Growth - Mar 2010
Heavy Vehicles

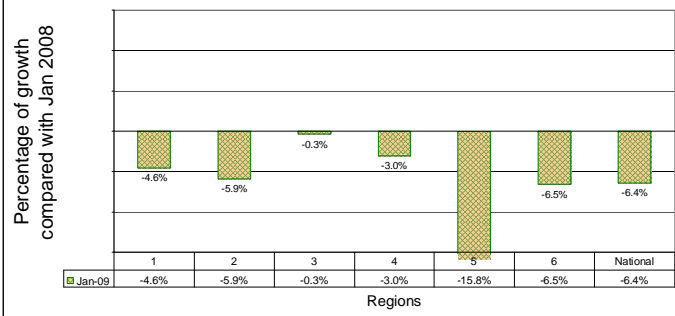


Regional Growth - Jun 2010
Heavy Vehicles

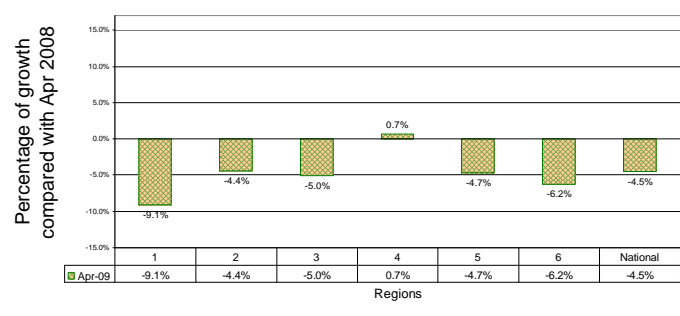




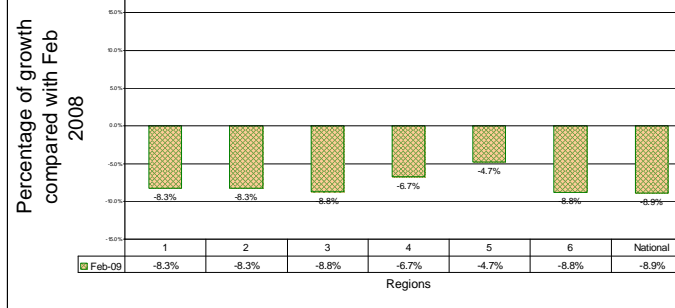
Regional Growth - Jan 2009
Heavy Vehicles



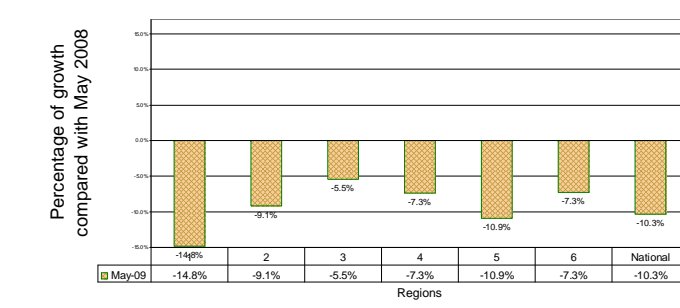
Regional Growth - Apr 2009
Heavy Vehicles



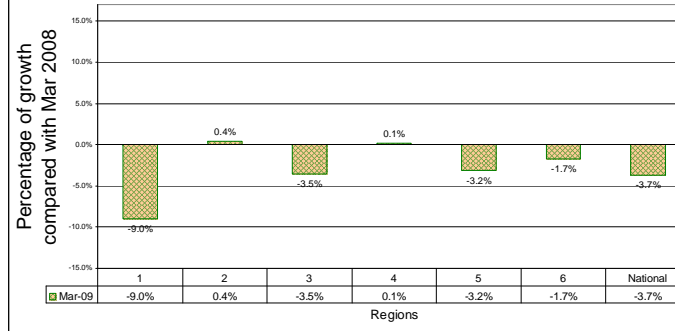
Regional Growth - Feb 2009
Heavy Vehicles



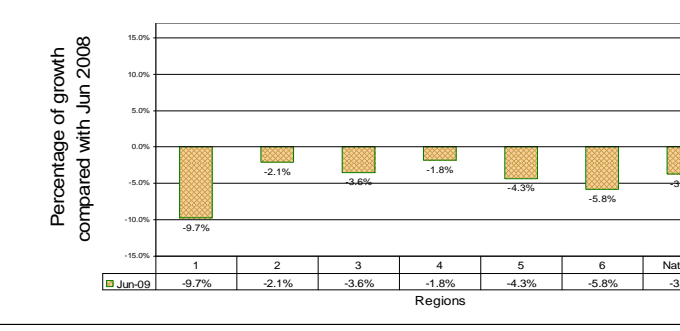
Regional Growth - May 2009
Heavy Vehicles

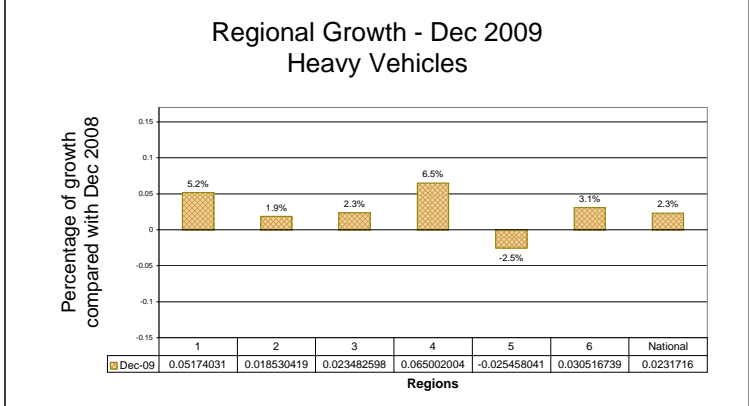
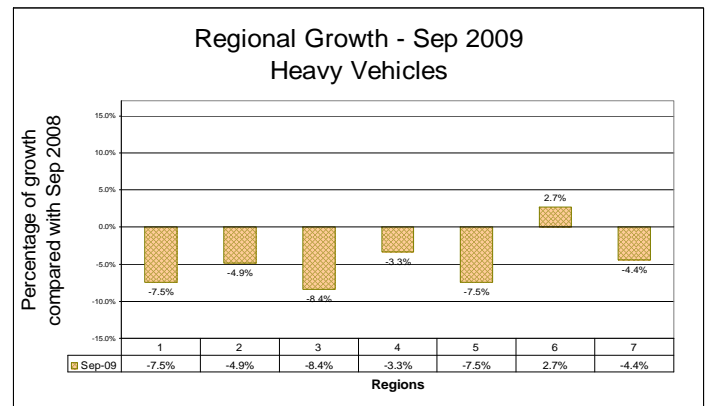
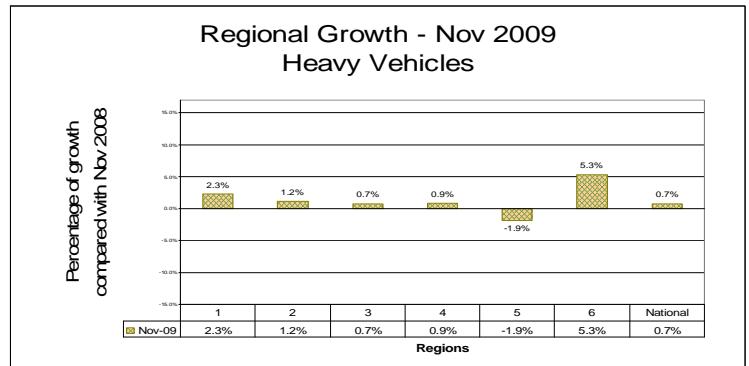
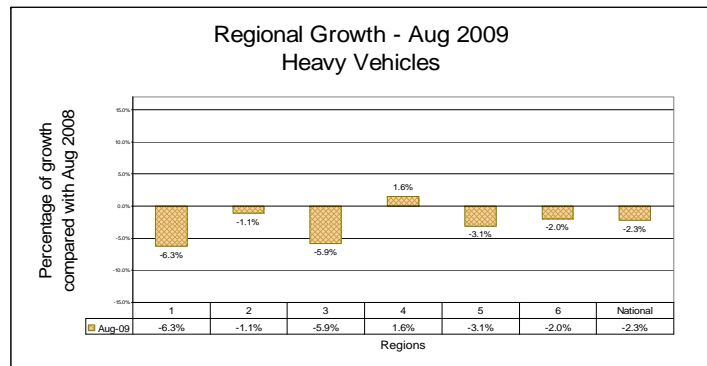
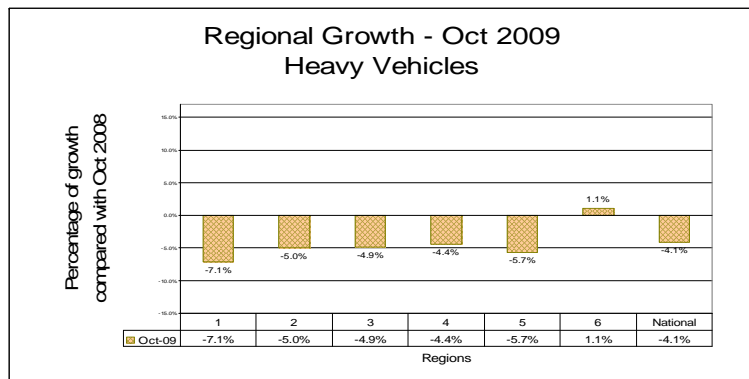
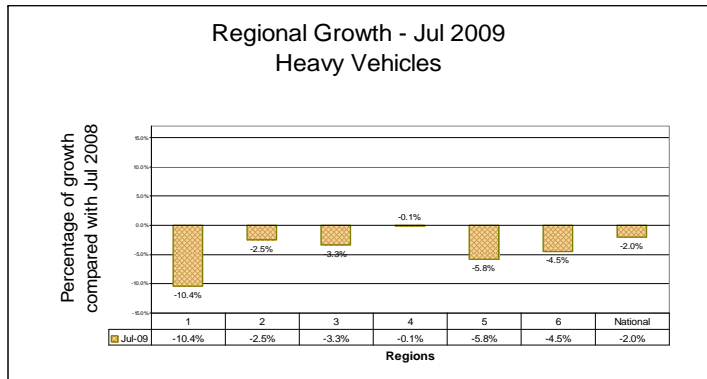


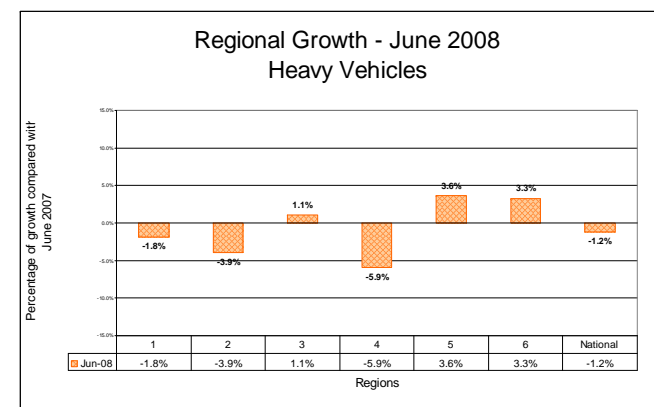
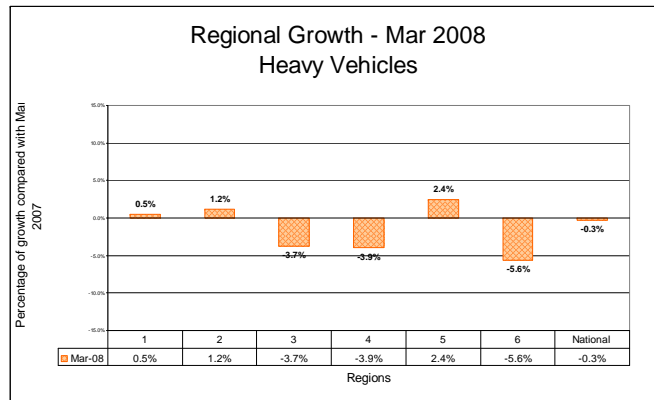
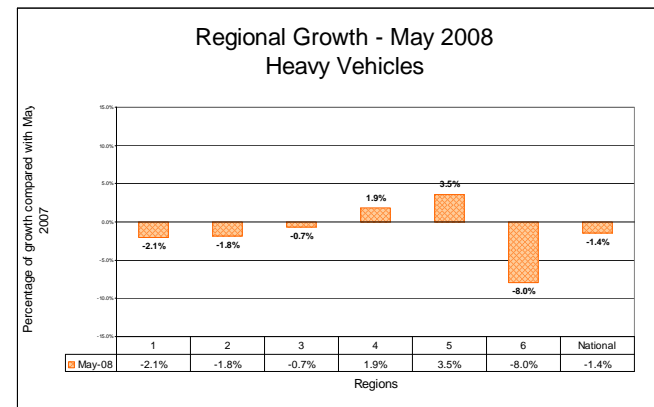
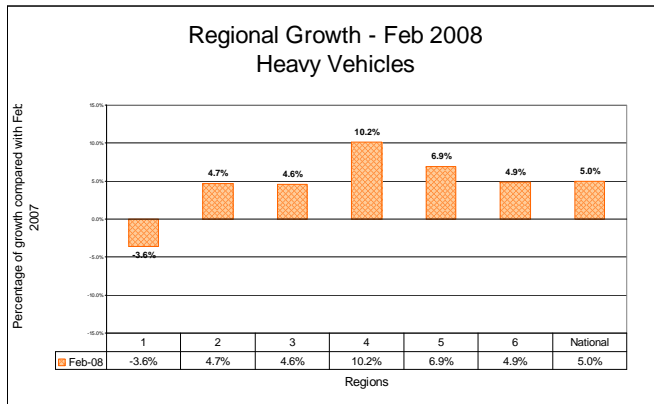
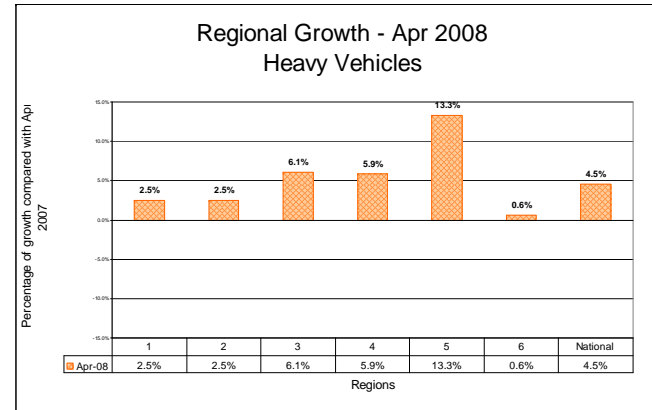
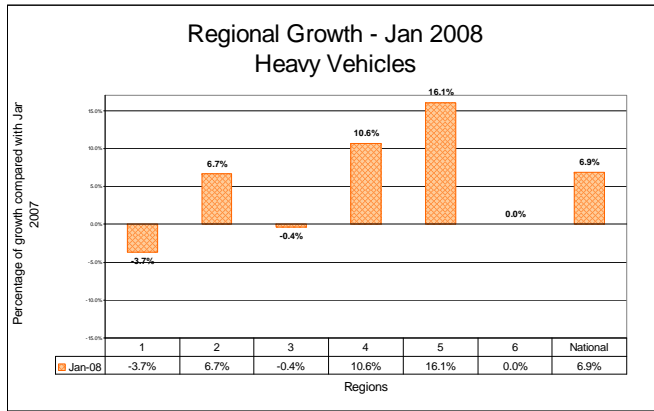
Regional Growth - Mar 2009
Heavy Vehicles



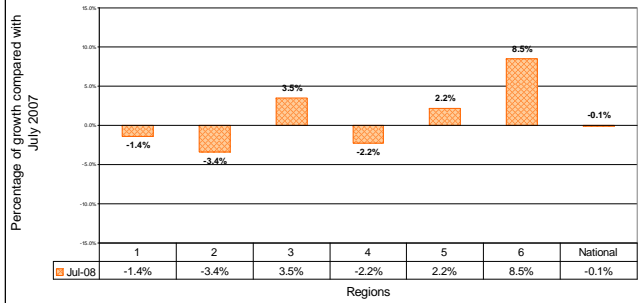
Regional Growth - Jun 2009
Heavy Vehicles



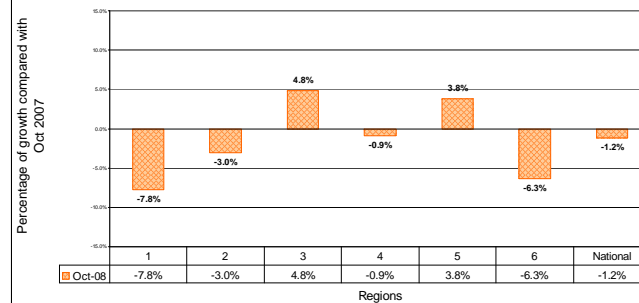




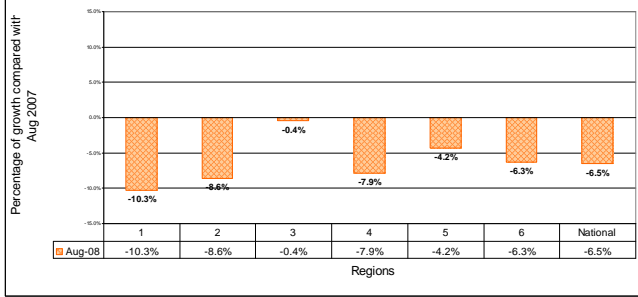
Regional Growth - July 2008
Heavy Vehicles



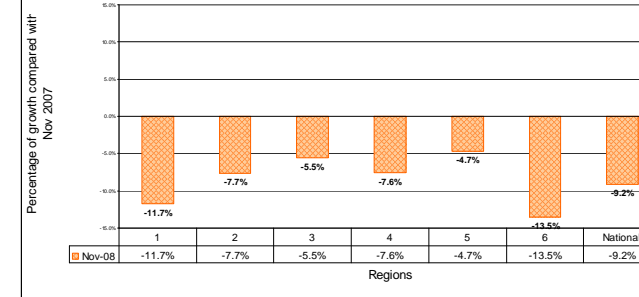
Regional Growth - Oct 2008
Heavy Vehicles



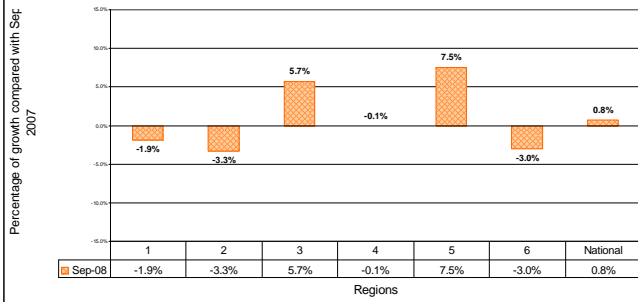
Regional Growth - Aug 2008
Heavy Vehicles



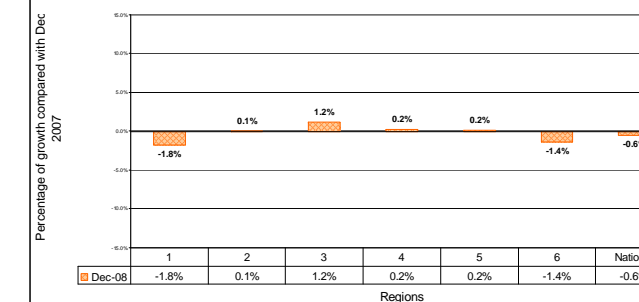
Regional Growth - Nov 2008
Heavy Vehicles



Regional Growth - Sep 2008
Heavy Vehicles



Regional Growth - Dec 2008
Heavy Vehicles



Telemetry Site MADT All Vehicles

NZTA Region	Site Ref	Description	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11
1	ID:01N00212	KAWAKAWA	5299	6147	6032	6969	7245	6565	6077	6330	5169	5090	5230	5165	5313
1	ID:01000029	Sth of Takou Bay Rd	3149		3532	4670						3063	2986	3055	3099
1	ID:01N00274	Nth of Maungakaramea Rd	12716			15383						12756	12841	12753	13235
1	ID:01200220	East of Brynderwyn Brg 161		2676	2786							2457	2449	2387	2456
1	ID:01700006	HATFIELDS BEACH	4980	6060	5884	6486	6872	6394	5577	5661	4960	4717	4970	5019	5051
1	ID:01N10459	DRURY - SB (Park Estate)	27214	29305	30174	31548	29198	30712	29552	29756	27664	27581	28429	27894	27967
1	ID:01N20459	DRURY - NB (Park Estate)	27050	29555	30279	30307	30599	30881	29581	29834	27731	27581	28516	27988	27912
1	ID:01N00336	WELLSFORD - Nth of Mangawhai Rd	7456	9219	8737	10189	11778	9755	8898	9485	7682	7521	8055	7463	7748
1	ID:01N10440	PANAMA Rd - SB	56151			51665	49093		54687	52709	53366		56261		
1	ID:01N20440	PANAMA RD - NB	55062			56064	53164		58201	56563	56060		59301		
1	ID:01N10474	BOMBAY- SB	16287	18448	18064	20399	19452	18744	17642	18729	15926	12999	17209	16171	17241
1	ID:01N20474	BOMBAY - NB	15880	18409	18067	18936	20730	18757	17676	18710	16095	16214	17194	16169	17035
1	ID:01N00388	ALPURT	11944	14510	13997	16139	17725	15618	14088	14775	12362	12310	12931	12242	12364
1	ID:02000007	SH20 Puhinui Rd to Massey Rd	51606	54229	57748	55895	49413		57093	54302	55251	54871	54241	56527	57429
1	ID:01N00424	Auckland Harbour Brg - Centre Span	75033	75886	80207	75593	71873	78352	77723	73127	69488	70026	71166	71570	71209
1	ID:01N10424	Auckland Harbour Brg - Left Clip-on	40071	40220	41890	34846	31473	41901	40679	38050	38608	38935	38691	39499	39618
1	ID:01N20424	Auckland Harbour Brg - Right Clip-on	41253	41501	42320	43379	36469	42022	43238	39275	42916	41479	43071	42004	43075
2	ID:00200002	MAUNGATAWHIRI - West of Grahams Brg	11217	13769	13003	15574			13273	14087	11379	11436	12290	11329	11711
2	ID:25A00024	HIKUAE - Telemetry Site 76 - 1.3km after Kitahi Rd	2338	3354	3024	4355	5688	3754	3352	3396	2264	2386	2448	2189	2410
2	ID:02700011	KAIHERE	3786	4463	4341	4741	4690	4626	4486	4994	3915	3933	4216	3896	4011
2	ID:01N00526	TAUPIRI - Nth of Gordonton Rd	19269	20775	21355	21702	20747	21234	20524	21380	19208		20530	19867	19802
2	ID:01N00620	LICHFIELD - Sth of Baldwin Rd	8391	9314	9352	9841	9735	9660	9259	9614	8335	8455	8724	8347	8557
2	ID:00300085	TE KUIITI - Nth of 8 Mile Junction	3837	4347	4001	4366	4287	4109	4073	4231	3512	3706	4161	4061	4087
2	ID:03200074	West of Taupo	692	764	736	766	864	709	636	712	489	605	587	623	649
2	ID:01N00580	KARAPIRO	13346	14977	14953	15640	15796	15679	14795	15227	13312	13152	14486	13314	13167
2	ID:00200091	WAIHI - East of Samson Rd West	6470	7877	7475	8928	9593	8145	7328	7778	6628	6601	6847	6533	6615
2	ID:01N00729	HALLETTS BAY	4696	5479	5292	6031	6917	5831	5206	5884	4121	4389	5153	4669	4843
2	ID:01N00628	TOKOROA - (WIM Site)	7803	8366	8398	9364	9337	9056	8601	8962	7650	7321	8142	7754	7996
2	ID:01N90552	GREENWOOD	21577	22213	23253	22434	19910	23029	22717	22339	21977	22357	21486	22228	21969
2	ID:00200141	TE PUNA - West of Snodgrass	15140	16201	17039	17924	17369	17396	16236	16039	15696	15376	15289	15461	15485
2	ID:03010149	TE NGA - East End of Puarenga Brg (Inc)	16230	17127	17635	18134	16699	17872	17477	16805	16299	16300	16209	16552	16157
2	ID:03020149	East end of Puarenga Brg (Dec)	16357	17298	17861	17884	17000	18004	17500	16789	16264	16262	16190	16591	16162
2	ID:00200204	OHINEPANEA - West of Rogers Rd	4361	4976	4990	5389	5457	5148	4801	4889	4441	4382	4457	4410	4540
2	ID:03000188	LAKE ROTOMA	2690	2936	2932	3284	3504	3231	2937	2951	2499	2587	2671	2534	2613
2	ID:03300030	Sth of Maungarangi Rd Paengaroa	3589	4136	4137	4540	4946	4531	4142	4085	3745	3608	3693	3639	3562
2	ID:00500034	TARUKENGA - 4.7km West of Dalbeth Rd	4632	5379	5182	5604	5663	5544	5061	5769	4549	4734	4895	4627	4758
2	ID:02900034	KAIMAI - 100m past Boulder Brg (Kaukumoutiti Stream)	7737	8946	8882	9575	9526	9087	9030	9212	8080	8409	8480	8072	8185
2	ID:00500057	WAIPA - Sth of SH30	6652	7289	7359	7783	8166	8013	7408	7240					
2	ID:00200176	TE PUKE - (WIM Site)	17882	18749	19794	19977	18711	19884	19345	19220		18440	17908	18240	
2	ID:00200242	AWAKERI	8607	8917	9327	9688	8874	9348	9505	8954		8397	7938	7323	7342
3	ID:00200428	ORMOND	2166	2359	2435	2707	2472	2781	2437	2317	2144	2197	2162	2132	2165
3	ID:03500320	OKITU	2951	3194	3437	4271	4237	3732	3418	3227	3007	2838	2655	2704	2939
3	ID:00200627	TANGOIO	1790	2030	2079	2332	2447	2360	2070	1923	1810	1771	1822	1750	1863
3	ID:00500230	TE POHUE - 1km Nth of Oakmere Station Gateway	2334	2819	2724	3136	3339	3237	3090	2945		2171	2502	2262	2506
3	ID:05000010	Nth of Tutakuri River	20809	20988	22820	22638	20807	23309	23140	21308	21077		20512	21071	21149
3	ID:00300171	TONGAPORUTU Brg	1702	2170	2046	2273	2535	2157	2151	2126	1647	1843	1939	1744	1933
3	ID:00300267	TARIKI	8139	8756	9326	9203	8470	9057	8994	8796	8517	8366	8441	8341	8382
3	ID:00300370	WAITOTARA	3111	3580	3596	3702	3572	3720	3673	3656	3224	3008	3113	3131	3242
3	ID:04500101	OHAWA BEACH Rd	3812	4055	4382	4235	3880	3879	3860	3679	3593	3428	3354	3518	
3	ID:01N00930	SANSON	11247	12302	12397	13418	12778	13001	12334	12486	11186	11155	11602	11190	11357
3	ID:01N00988	OHAU	13690	15117	15098	16237	16029	16058	15034	15204	13376	13533	14074	13386	13661
3	ID:00200755	NORSEWOOD	3383	4031	3848	4482	4589	4438	4056	4100	3390	3385	3522	3211	3510
3	ID:00300489	MANAWATU GORGE	5595	6538	6754	7397	7351	7368	7226	7001	6348	6341	6152	5677	

Telemetry Site MADT All Vehicles

NZTA Region	Site Ref	Description	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11
3	ID:00400133	HOROPITO		1933	1677	1888	2069	1904	1725	1873	1339	1598	2153	2277	1999
3	ID:00400226	UPOKONGARO	1763	2011	2029	2133	2064	2082	1942	1973	1689	1747	1771	1713	1745
3	ID:01N00827	HIHITAH		4711	4515	5128	5777		4456	4730	3425	3973	4218	3676	4058
4	ID:01N11068	NGAURANGA - SH1 Sth Bound Lanes	22187	22576	23635	24121	21291	23769	22844	21698	22405	22005	22313		
4	ID:00200895	CLAREVILLE - Nth of Whites Line	9926	10486	11040	11218	10499	11324	11089	10496	10307	10189	9817	9874	10526
4	ID:00200937	RIMUTAKA - Pukuratahi River Brg	4945	5863	5760	6299	6185	6581	5928	5873	5170	5017	4951	4126	
4	ID:01N01036	PUKERUA BAY - (Piezo Axle Classification)	23023	24134	24534	25586	24032	25134	23725	23541	22092	21615	22427	21921	22053
4	ID:01N21068	NGAURANGA - SH1 Nth Bound Lanes	21941	22440	23080	21809	19525	23316	22693	21615	22383	21886	22121	22270	22403
4	ID:05800009	Pauatahanui East	13608	14187	14892	14444	13097	14643	14456	13750	13571	13462	13189		13305
4	ID:00210979	NGAURANGA - SH2 Sth Bound Lanes	21369	21727	22773	23659	20048	23121	22543	20918	21928	21212	21344		
4	ID:00220979	NGAURANGA - SH2 Nth Bound Lanes	21139	21590	22151	20919	18405	22556	22151	20709	21691	20955	21073	21380	21476
4	ID:00210965	KELSON - SB			18256	17450	15742	18235	17831	16832	17121	16818	16745	16521	17015
4	ID:00220965	KELSON - NB			17201	16769	14701	17277	16963	16171	16394	16171	16080	15806	16332
4	ID:00600122	STOKE - Whakatu Drive at Songer St	20028		22696	22595	21563	22911	22565	20862	20373	19589	20028	20498	20484
4	ID:00600232	MURCHISON	1383	1720	1830	2148	2675	2397	2077	1945	1373	1392		1269	1429
4	ID:00600100	HIRA	2843	3219	3379			3955	3635	3401	2766	2791		2736	
4	ID:06000040	SH60 Riwaka	2603	3481	3835	4551	6340	5207	4305	3721	2887	2597	2488	2500	2656
4	ID:01S00037	Blenheim	3204	3454	3696	3778	4439	4468	4066	4158		3201		3168	3213
4	ID:06300096	ST ARNAUD	253	327	356	419	481	454	410	364	232	225		217	247
5	ID:01S00389	DUNSANDEL	9187	10196	10447	10927	10665	11250	10737	10528	9199	9143	9711	8709	9555
5	ID:01S00505	EVANS St Timaru	19292	20143	20982	21937	19925	21350	21419	20369	19506	18770	19402	19134	19077
5	ID:07300064	Springfield - West of Township	1227	1643	1612	1726	1952	1859	2244	1646	1181	1170	1338	1412	1433
5	ID:01S00144	KAIKOURA - Nth of Hapuku River	1977	2349	2553	2997	3371	3117	2589	2614	1731	1914	2060	1768	1968
5	ID:01S00522	ST ANDREWS	5215	5735	5799	6217	5901	6089	5909	5960	5185	5166	5252	4822	5355
5	ID:00700108	LEWIS PASS	846	1151	1142	1373	1750	1475	1233	1278	872	938	874	775	874
5	ID:07409005	QE II Drive East Of Main Nth Rd		19206	19819							20675			20889
5	ID:01S00285	WAIKOURA - (WIM Site)	6441	7668	7609	8408	9059	8481	7802	7952	5924	6603	6564	5734	6636
5	ID:01S10327	WAIMAKARIRI BRIDGE - SB	19201	19648	20440				20452	19587	22334	20625	19185	18994	20064
5	ID:01S20327	WAIMAKARIRI BRIDGE - NB	18387	18824	19625				19889	18958	22009	20168	18465	18253	19389
5	ID:00800059	FAIRLIE	1835	1992	2101	2535	2807	2478	2320	2246	1582	1623	1827	1775	1737
5	ID:00600454	CHESTERFIELD	2506	2810	3106	3124	3263	3314	4038	2884	2454	2387	2349	2414	2582
5	ID:00700239	AHAURA	1141	1277	1280	1340	1349	1413	1407						
5	ID:00600398	PUNAKAIKI - Just Nth of Canoe Creek	727	967	1073	1113	1325	1306	1178	1027	737	684			
6	ID:00800336	ALEXANDRA - Sth Near Butchers Dam	1878	2088	2023	2376	2666	2246	2186	2255	1754	1741	1724	1719	1946
6	ID:01S10713	BURNSIDE - Sth Bound	14354	15613	16447	15283	13683		16156	14610	15277	15211	14843	14950	15267
6	ID:01S20713	BURNSIDE - Nth Bound	9751	10640	11205	10379	9476	10822	11137	10010	10526	10464	10252	10325	10474
6	ID:01S50713	BURNSIDE - On Ramp - Nth Bound	2374	2602	2707	2499	2272	2534	2507	2338	2503	2489	2428	2458	2470
6	ID:01S60713	BURNSIDE - Off Ramp - Sth Bound	2915	3200	3419	3032	2794	3441	3422	3017	3385	3279	3082	3212	3247
6	ID:01S40713	BURNSIDE - Off Ramp - Nth Bound	3094	3333	3533	3106	2845	3711	3524	3125	3385	3278	3135	3198	3301
6	ID:01S40714	Burnside - Nth Bound Off Ramp	2042	2231	2360	2123	1989	2427	2336	2076	2265	2207	2119	2164	2243
6	ID:01S00765	MILTON	5449	6149	6304	6580	6285	6817	6536	6484	5682	5459	5370	5087	5783
6	ID:06A00001	FRANKTON	16049	15765	16710	17600	17977	18025	17650		15195	15746	16567	17027	16466
6	ID:08500161	GALLOWAY	1841	1867	1949	2242	2238	2124	1981	2007	1748	1727	1643	1683	1838
6	ID:08800004	RAVENSBORNE	8493	8700	9041	8734	7787	9111	9101	8362	8366	8202	7777	8013	8409
6	ID:01S00921	INVERCARGILL	10850	11112	12032	11420	9657	11807	11837	10949	11328	11103	10782	11263	11219
6	ID:00601147	WINTON	4236	4636	4873	4928	4313	4737	4772	4540	4589	4346	4159	4326	4444
6	ID:00601082	FIVE RIVERS	1310	1654	1897			2328	2051	2022	1372	1278	1206	1168	1389
6	ID:01S00854	GORE	3626	3963	4307	4301	4060	4353	4283	4083	3860	3688	3655	3564	3684
6	ID:09400141	TE ANAU	704	995	1320	1423	1688	1642	1427	1181	732	615	510	615	753

Telemetry Site MADT Heavy Vehicles

NZTA Region	Site Ref	Description	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11
1	ID:01N00212	KAWAKAWA	612	705	751	724	739	762	746	710	618	577	558	601	655
1	ID:01000029	Sth of Takou Bay Rd	240		298	312									
1	ID:01N00274	Nth of Maungakaramea Rd	1316			1549						1482	1451	1483	1510
1	ID:01200220	East of Brynderwyn Brg 161		314	367							357	304	314	403
1	ID:01700006	HATFIELDS BEACH	196	244	258	267	249	261	235	220	200	180	183	193	199
1	ID:01N10459	DRURY - SB (Park Estate)	2330	2406	2698	2612	2294	2684	2696	2480	2472	2339	2186	2306	2323
1	ID:01N20459	DRURY - NB (Park Estate)	2201	2301	2590	2444	2250	2560	2576	2388	2368	2234	2100	2203	2205
1	ID:01N00336	WELLSFORD - Nth of Mangawhai Rd	820	955	994	1001	1083	1024	1006	947	860	819	763	837	880
1	ID:01N10474	BOMBAY- SB	1850	1972	2180	2143	1868	2177	2173	1994	1942	1515	1783	1866	2000
1	ID:01N20474	BOMBAY - NB	1865	2034	2284	2132	2008	2237	2220	2060	1995	1935	1838	1922	2043
1	ID:01N00388	ALPURT	1173	1357	1410	1452	1440	1413	1311	1284	1170	1102	1065	1117	1139
1	ID:02000007	SH20 Puhinui Rd to Massey Rd	3541	3428	3882	3603	3081		3606	3108	3164	2981	2750	3100	3084
2	ID:00200002	MAUNGATAWHIRI - West of Grahams Brg	1502	1671	1850	1851			1896	1739	1682	1594	1497	1558	1676
2	ID:25A00024	HIKUAE - Telemetry Site 76 - 1.3km after Kitahi Rd	219	300	283	354	407	295	260	251	190	194	195	199	217
2	ID:02700011	KAIHERE	794	866	956	897	806	963	993	929	861	816	750	797	866
2	ID:01N00526	TAUPIRI - Nth of Gordonton Rd	1998	2108	2365	2175	1927	2266	2284	2079	2008		1940	2102	2157
2	ID:01N00620	LICHFIELD - Sth of Baldwin Rd	1402	1470	1610	1475	1326	1525	1654	1464	1371	1333	1232	1312	1437
2	ID:00300085	TE KUITI - Nth of 8 Mile Junction	618	687	758	701	629	724	758	682	670	599	590	637	665
2	ID:03200074	West of Taupo	104	117	118	99	94	106	114	99	93	121	97	105	122
2	ID:01N00580	KARAPIRO	1463	1600	1721	1629	1566	1765	1703	1544	1453	1330	1254	1483	1472
2	ID:00200091	WAIHI - East of Samson Rd West	727	823	907	909	828	907	826	812	760	730	686	733	746
2	ID:01N00729	HALLETTS BAY	714	766	872	806	797	899	894	818	748	737	665	663	759
2	ID:01N00628	TOKOROA - (WIM Site)	1371	1359	1514	1461	1202	1442	1547	1292	1255	1136	1193	1337	1504
2	ID:01N90552	GREENWOOD	1650	1736	1978		1613	1995	1962	1744	1733	1695	1540	1709	1665
2	ID:00200141	TE PUNA - West of Snodgrass	1058	1139	1285	1166	1067	1246	1201	1193	1252	1134	1012	1111	1126
2	ID:03010149	TE NGA - East End of Puarenga Brg (Inc)	920	986	1051	990	910	1110	1096	966	935	901	887	962	962
2	ID:03020149	East end of Puarenga Brg (Dec)	1004	1076	1166	1009	960	1136	1123	1002	963	952	888	936	944
2	ID:00200204	OHINEPANEA - West of Rogers Rd	753	852	889	761	752	842	781	759	738	706	664	722	824
2	ID:03000188	LAKE ROTOMA	336	345	389	347	369	377	335	306	287	289	288	310	310
2	ID:03300030	Sth of Maungarangi Rd Paengaroa	526	593	657	623	581	701	688	582	571	540	490	545	547
2	ID:00500034	TARUKENGA - 4.7km West of Dalbeth Rd	590	617	699	676	638	743	685	649	575	553	547	583	576
2	ID:02900034	KAIMAI - 100m past Boulder Brg (Kaukumoutiti Stream)	1059	1171	1338	1311	1158	1331	1391	1268	1161	1145	1070	1201	1258
2	ID:00500057	WAIPA - Sth of SH30	815	834	900	794	784	998	971	894					
2	ID:00200176	TE PUKE - (WIM Site)	1793	1889	2111	1766	1544	1837	2089	2167		1855	1662	1848	
2	ID:00200242	AWAKERI	695	733	811	760	699	827	880	717		614	568	574	648
3	ID:00200428	ORMOND	209	224	254	252	243	316	291	260	258	261	241	210	229
3	ID:03500320	OKITU	260	267	321	336	341	400	382	323	286	285	240	273	285
3	ID:00200627	TANGOIO	326	343	430	391	393	444	418	335	373	363	338	346	358
3	ID:00500230	TE POHUE - 1km Nth of Oakmere Station Gateway	451	482	552	516	557	562	601	534		451	467	472	525
3	ID:05000010	Nth of Tutaeakuri River	1221	1304	1508	1389	1325	1553	1728	1558	1410		1205	1269	1341
3	ID:00300171	TONGAPORUTU Brg	333	393	444	409	375	413	436	393	381	358	348	399	410
3	ID:00300267	TARIKI	899	1010	1087	1045	923	1033	1061	968	901	780	803	960	1008
3	ID:00300370	WAITOTARA	511	600	668	601	561	689	683	646	578	423	414	571	561
3	ID:04500101	OHAWA BEACH Rd	530	613	599	518	491	471	457	388	306	216	235	370	
3	ID:01N00930	SANSON	1418	1517	1693	1556	1488	1724	1721	1598	1496	1357	1258	1372	1470
3	ID:01N00988	OHAU	1417	1496	1677	1569	1466	1679	1699	1509	1430	1383	1315	1366	1411
3	ID:00200755	NORSEWOOD	523	595	678	628	633	699	718	677	569	541	493	525	603
3	ID:00300489	MANAWATU GORGE	654	749	863	808	794	901	956	861	776	707	642	723	
3	ID:00400133	HOROPITO		281	312	303	299	354	345	295	276	277	275	297	294
3	ID:00400226	UPOKONGARO	142	151	176	161	154	180	173	151	136	146	138	138	139
3	ID:01N00827	HIHITAHU		861	989	913	910		1028	885	824	864	784	740	830

Telemetry Site MADT Heavy Vehicles

NZTA Region	Site Ref	Description	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11
4	ID:01N11068	NGAURANGA - SH1 Sth Bound Lanes	605	606	644	678	603	669	636	557	588	556	571		
4	ID:00200895	CLAREVILLE - Nth of Whites Line	527	591	662	595	571	683	679	589	546	497	463	506	600
4	ID:00200937	RIMUTAKA - Pukuratahi River Brg	279	325	360	368	345	424	389	346	333	302	278	251	
4	ID:01N01036	PUKERUA BAY - (Piezo Axle Classification)	1732	1714	1951	1814	1636	1935	2020	1812	1803	1695	1641	1745	1794
4	ID:01N21068	NGAURANGA - SH1 Nth Bound Lanes	718	716	730	689	634	758	738	688	710	688	703	701	703
4	ID:05800009	Pauatahanui East	519	565	629	562	528	623	640	613	673	656	641		659
4	ID:00210979	NGAURANGA - SH2 Sth Bound Lanes	667	713	798	803	690	797	813	707	750	706	700		
4	ID:00220979	NGAURANGA - SH2 Nth Bound Lanes	716	746	803	712	639	796	832	723	771	722	708	755	780
4	ID:00210965	KELSON - SB			760	687	624	785	749	668	693	661	634	648	672
4	ID:00220965	KELSON - NB			647	599	518	659	642	569	590	558	548	555	587
4	ID:00600122	STOKE - Whakatu Drive at Songer St	1150		1404	1208	1246	1421	1467	1341	1297	1038	1141	1239	1252
4	ID:00600232	MURCHISON	292	282	317	314	384	356	341	289	247	224		237	258
4	ID:00600100	HIRA	456	465	495			588	562	480	406	408		440	
4	ID:06000040	SH60 Riwaka	168	229	265	272	367	342	307	270	202	172	145	165	176
4	ID:01S00037	Blenheim	476	555	602	639	656	664	712	864		506		531	577
4	ID:06300096	ST ARNAUD	77	41	47	40	44	52	50	40	35	29		30	32
5	ID:01S00389	DUNSANDEL	1315	1477	1621	1566	1513	1613	1611	1440	1324	1190	1245	1227	1434
5	ID:01S00505	EVANS St Timaru	1370	1511	1678	1573	1429	1575	1718	1560	1410	1227	1163	1306	1356
5	ID:07300064	Springfield - West of Township	149	215	226	210	227	244	315	207	174	150	116	162	180
5	ID:01S00144	KAIKOURA - Nth of Hapuku River	419	492	555	528	529	567	570	516	422	421	422	429	473
5	ID:01S00522	ST ANDREWS	840	908	963	945	876	924	1013	947	839	716	672	758	884
5	ID:00700108	LEWIS PASS	190	177	190	215	265	218	214	193	168	158	141	152	166
5	ID:07409005	QE II Drive East Of Main Nth Rd		636	582							792			629
5	ID:01S00285	WAI PARA - (WIM Site)	1001	1037	1132	1097	959	1085	1188	1044	1031	1020	959	986	1191
5	ID:01S10327	WAIMAKARIRI BRIDGE - SB	1201	1182	1274				1287	1168	1317	1140	1017	1074	1256
5	ID:01S20327	WAIMAKARIRI BRIDGE - NB	1133	1117	1197				1228	1100	1283	1088	942	997	1150
5	ID:00800059	FAIRLIE	207	242	269	305	335	304	279	258	194	171	149	168	199
5	ID:00600454	CHESTERFIELD	308	385	410	355	356	374	463	314	251	200	188	230	324
5	ID:00700239	AHAURA	182	207	221	194	196	225	233						
5	ID:00600398	PUNAKAIKI - Just Nth of Canoe Creek	94	111	139	122	128	145	131	102	73	57	57	72	90
6	ID:00800336	ALEXANDRA - Sth Near Butchers Dam	167	183	189	222	264	223	222	202	185	159	150	167	186
6	ID:01S10713	BURNSIDE - Sth Bound	1054			981	761		943	786	832	755	702	736	837
6	ID:01S20713	BURNSIDE - Nth Bound	999			834	664	812	839	695	667	590	532	570	659
6	ID:01S50713	BURNSIDE - On Ramp - Nth Bound	111	131	135	111	111	128	146	118	127	113	117	112	113
6	ID:01S60713	BURNSIDE - Off Ramp - Sth Bound	197	225	231	193	185	233	253	200	201	194	179	184	191
6	ID:01S40713	BURNSIDE - Off Ramp - Nth Bound	184	197	211	178	179	246	233	191	138	126	112	113	124
6	ID:01S40714	Burnside - Nth Bound Off Ramp	70	82	83	71	73	92	84	72	68	66	64	64	71
6	ID:01S00765	MILTON	683	839	923	832	785	932	929	814	765	621	556	599	786
6	ID:06A00001	FRANKTON	855	867	963	964	986	983	973		737	695	756	792	813
6	ID:08500161	GALLOWAY	105	106	166	113	136	142	135	137	117	110	95	105	114
6	ID:08800004	RAVENSBOURNE	413	516	536	512	453	558	561	496	504	424	354	389	454
6	ID:01S00921	INVERCARGILL	351	351	380	334	309	372	383	337	341	339	325	374	375
6	ID:00601147	WINTON	440	553	554	537	473	521	519	470	427	361	324	409	454
6	ID:00601082	FIVE RIVERS	141	186	238			315	272	242	164	122	106	127	143
6	ID:01S00854	GORE	473	505	607	525	507	572	575	518	478	365	340	405	478
6	ID:09400141	TE ANAU	93	122	165	155	173	178	163	129	78	65	48	66	81